

California High-Speed Rail Authority



RFP No.: HSR 13-57

**Request for Proposals for Design-Build
Services for Construction Package 2-3**

**Reference Material, Part C.6
Utility Impacts Report**

04/02/2014 - RFP No.: HSR13-57

CALIFORNIA HIGH-SPEED TRAIN

Engineering Report

RECORD SET 15% DESIGN SUBMISSION

Fresno to Bakersfield Utility Impact Report

December 2013

04/02/2014 - RFP No.: HSR13-57



CALIFORNIA
High-Speed Rail Authority



**Fresno to Bakersfield
Record Set 15% Design Submission
Utility Impact Report**

04/02/2014 - RFP No.: HSR13-57

Prepared by:

URS/HMM/Arup Joint Venture

December 2013

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List of Abbreviations

Authority	California High-Speed Rail Authority
CHSTP	California High-Speed Train Project
FB	Fresno to Bakersfield
GIS	Geographic Information System
HST	high-speed train
kV	kilovolt
PG&E	Pacific Gas and Electric
SR	state route
UP	underpass

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Section 1.0

Introduction

1.0 Introduction

1.1 Project Overview

In 1996, the state of California established the California High-Speed Rail Authority (Authority). The Authority is responsible for studying alternatives to construct a rail system that will provide intercity high-speed train (HST) service on over 800 miles of track throughout California. This rail system will connect the major population centers of Sacramento, the San Francisco Bay Area, the Central Valley, Los Angeles, the Inland Empire, Orange County, and San Diego. The Authority is coordinating the project with the Federal Railroad Administration. The California High-Speed Train Project (CHSTP) is envisioned as a state-of-the-art, electrically powered, high-speed, steel-wheel-on-steel-rail technology that will include state-of-the-art safety, signaling, and automated train-control systems.

The statewide CHSTP has been divided into a number of sections for the planning, environmental review, coordination, and implementation of the project. This Utility Impact Report is focused on the section of the CHSTP between Fresno and Bakersfield, specifically between the CHSTP stations in downtown Fresno and downtown Bakersfield. During the initial planning process, the CHSTP alignment alternatives are dynamic and subject to revision.

1.2 Project Description

1.2.1 Fresno to Bakersfield High-Speed Train Section

The proposed Fresno to Bakersfield (FB) Section of the HST is approximately 114 miles long and traverses a variety of land uses, including farmland, large cities, and small cities. The FB Section includes viaducts and segments where the HST will be on embankment or in cut. The route of the FB Section passes by or through the rural communities of Bowles, Laton, Armona, and Allensworth and the cities of Fresno, Hanford, Selma, Corcoran, Wasco, Shafter, McFarland, and Bakersfield.

The FB Section commence southeast from north of Stanislaus Street in Fresno, and extends to the northernmost limit of the Bakersfield to Palmdale Section of the HST at Oswell Street in Bakersfield.

1.2.2 Alignments

The FB HST Section, shown in Figure 1.2-1, is a critical link connecting the northern HST sections of Merced to Fresno and the Bay Area to the southern HST sections of Bakersfield to Palmdale and Palmdale to Los Angeles. The FB Section includes HST stations in the cities of Fresno and Bakersfield, with a third station in the vicinity of Hanford. The Fresno and Bakersfield stations are this section's project northern and southern termini, respectively.

The FB Section of the HST is divided into the 10 subsections. Seven of the ten subsections include multiple alignment alternatives, which are currently being evaluated until a preferred alignment is identified for each subsection. Table 1.2-1 and Figure 1.2-1 illustrate the subsections and their corresponding alignments.

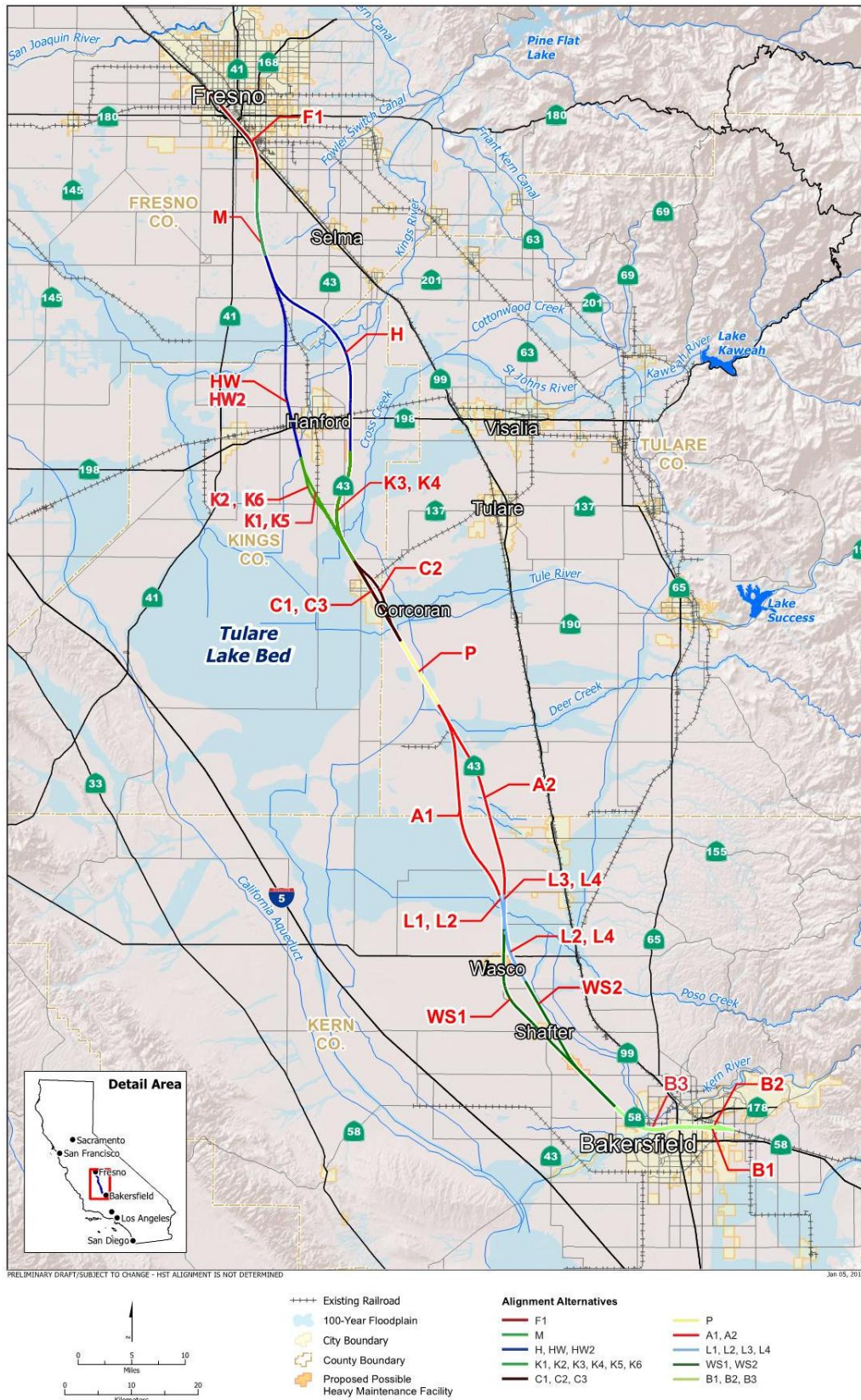


Figure 1.2-1
Overview of Alignments

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Table 1.2-1
FB Alignment Subsections

Alignment Prefix	Alignment Subsection Name	Location		County	EIR/EIS Name
		Begin	End		
F1	Fresno	San Joaquin St	E Lincoln Ave	Fresno	BNSF
M	Monmouth	E Lincoln Ave	E Kamm Ave	Fresno	BNSF
H	Hanford	E Kamm Ave	Iona Ave	Fresno and Kings	BNSF (Hanford East)
HW	Hanford West Bypass	E Kamm Ave	Idaho Ave		Hanford West Bypass 1 & 2
HW2	Hanford West Bypass	E Kamm Ave	Iona Ave		Hanford West Bypass 1 & 2 Modified
K1	Kaweah	Idaho Ave	Nevada Ave	Kings	Hanford West Bypass 2 (at-grade) (connects to C1 [Corcoran Elevated] or C2 [Corcoran Bypass])
K2		Idaho Ave	Nevada Ave		Hanford West Bypass 1 (at-grade) (connects to C3 [BNSF through Corcoran])
K3		Iona Ave	Nevada Ave		BNSF (Hanford East) (connects to C3 [BNSF through Corcoran])
K4		Iona Ave	Nevada Ave		BNSF (Hanford East) (connects to C1 [Corcoran Elevated] or C2 [Corcoran Bypass])
K5		Iona Ave	Nevada Ave		Hanford West Bypass 2 Modified (below-grade) (connects to C1 [Corcoran Elevated] or C2 [Corcoran Bypass])
K6		Iona Ave	Nevada Ave		Hanford West Bypass 1 Modified (below-grade) (connects to C3 [BNSF through Corcoran])
C1	Corcoran	Nevada Ave	Ave 128	Kings and Tulare	Corcoran Elevated
C2	Corcoran Bypass	Nevada Ave	Ave 128		Corcoran Bypass
C3	Corcoran	Nevada Ave	Ave 128		BNSF (through Corcoran)
P	Pixley	Ave 128	Ave 84	Tulare	BNSF
A1	Allensworth Bypass	Ave 84	Elmo Hwy	Tulare and Kern	Allensworth Bypass
A2	Through Allensworth	Ave 84	Elmo Hwy		BNSF (through Allensworth)
L1	Poso Creek	Elmo Hwy	Whisler Rd	Kern	Allensworth Bypass (connects to BNSF [through Wasco-Shafter])
L2		Elmo Hwy	Poplar Ave		Allensworth Bypass (connects to Wasco-Shafter Bypass)
L3		Elmo Hwy	Whisler Rd		BNSF (through Allensworth) (connects to BNSF [through Wasco-Shafter])
L4		Elmo Hwy	Poplar Ave		BNSF (through Allensworth) (connects to Wasco-Shafter Bypass)
WS1	Through Wasco-Shafter	Whisler Rd	Hageman Rd	Kern	BNSF (through Wasco-Shafter)
WS2	Wasco-Shafter Bypass	Poplar Ave	Hageman Rd		Wasco-Shafter Bypass
B1	Bakersfield Urban	Hageman Rd	Baker St	Kern	BNSF (Bakersfield North)
B2		Hageman Rd	Baker St		Bakersfield South
B3		Hageman Rd	Baker St		Bakersfield Hybrid

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1.3 Purpose and Scope

This report provides preliminary information about the high- and low-risk utilities that will be affected by the construction of the HST. The footprint of the CHSTP used to assess the utility impacts detailed in this report consists of the track corridor, stations, HST facilities, and associated roadways. For this report, the footprint of the project was defined between 60 and 340 feet wide for the various aerial, depressed, and at-grade sections. The footprints for the roadways were defined by the outer limit of the cut and fill slopes for all proposed improvements, including roadside ditches for the grade separations.

For the purposes of this report, high-risk utilities are defined as facilities conducting the following materials, whether or not they are encased:

- Petroleum products (jet fuel, crude oil, gas oil, gasoline, etc.).
- Oxygen.
- Chlorine.
- Toxic or flammable gases or liquids.
- Natural gas.
- Underground, directly buried electric supply lines (300 volts and larger).
- Aboveground electric transmission lines (69 kilovolts [kV] and larger).
- Water lines (6-inch diameter and larger).

Low-risk utilities are defined as all other utilities, public and private, found within the project limits, such as the following:

- Low-voltage distribution lines (less than 69kV).
- Fiber-optic communication lines.
- Telecommunication lines.
- Sanitary sewer lines.
- Drainage facilities.
- Storm drain lines.
- Irrigation canals and facilities.
- Water lines (less than 6-inch diameter).

The design team consulted CHSTP design requirements in the analysis of utility impacts for the FB Section. In the preparation of this report, the team followed the steps of identifying and locating existing utilities, documenting utility information, and assessing utility impacts, as specified in the CHSTP design requirements (Designer's Responsibilities and Utility Requirements for 15% Design Level).

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Section 2.0

Data Sources

2.0 Data Sources

The design team solicited utility information from numerous cities, counties, public and private utility companies, irrigation, water, flood control and sanitation districts. A list of the agencies contacted can be found in Appendix A. Letters, phone calls and email correspondence were made to request information, and follow-up calls were placed when initial attempts to obtain utility data proved unsuccessful (see Appendix C). It was determined that 17 of the 59 contacted agencies had no utilities within the proposed HST right-of-way. All other utility data that were received were collated using the following four methods:

- Geographic Information System.
- Utility Drawings.
- Field Verification.
- Public Aerial and Ground-Level Imagery.

2.1 Geographic Information System

Some utility companies provided geographic information system (GIS) information, which was used to create maps to analyze the data. The sources for the GIS information included in this report are as follows:

- Chevron Corporation.
- City of Corcoran.
- City of Fresno (ViewFresno online tool).
- City of Shafter.
- City of Visalia.
- Consolidated Irrigation District.
- Kaweah Delta Water Conservation District.
- Lower Tule River and Pixley Irrigation District.
- North Kern Water Storage District.

2.2 Utility Drawings

Some utility companies provided system utility mapping, as-built drawings and proposed improvement drawings, which were then compiled to analyze impacts to the CHSTP.

2.3 Field Verification

Some utility data were taken into the field to verify the provided data and record all other utilities observed during the process.

2.4 Public Aerial and Ground-Level Imagery

Publicly available imagery was used in combination with the field-verified data to create a GIS database of all known utilities. More specifically, the aerial and ground-level images were utilized to confirm or negate the above ground utility data.

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Section 3.0

Utility Impacts

3.0 Utility Impacts

3.1 High-Risk Utilities

At this time, a total of 655 high-risk utility impacts are identified within the project footprint. These impacts are divided between four different high-risk categories — petroleum products, natural gas, aboveground electric transmission lines, and water lines. For more detailed information, see Appendix B. It is anticipated that conditions and information may change through the design and utility coordination process. This section should be updated at each stage to reflect any changes.

The presence or absence of underground electric, oxygen, chlorine, and toxic or flammable gas or liquid supply lines could not be determined based on the information received at this time. Given the land use along the FB Section, it is likely that oxygen, chlorine, and toxic or flammable gas will not be encountered. Coordination with the pertinent agencies will continue in order to ascertain this information. The known utilities and the associated impacts are addressed below.

3.1.1 Petroleum Products (Jet Fuel, Crude, Gas Oil, Gasoline)

Currently available information indicates that there are 77 locations where the construction of a roadway grade separation, HST track, or the columns of an HST viaduct will potentially affect existing active and abandoned underground petroleum utilities. Within urban areas where the HST is on a viaduct, column footings from the viaduct could potentially affect thousands of feet of petroleum line. Relocation of the petroleum line would be required in these situations.

There are also numerous roadway grade separations along the proposed alignment that will traverse petroleum lines with an overhead structure. The structure will require columns, and the column footings could potentially affect the petroleum line at these locations. The owners of the utilities within the identified impact areas are Kinder Morgan Inc., Shell Oil Company, Chevron Corporation, and Pacific Pipeline System LLC. The proposed HST construction could potentially affect existing underground pipelines. The pipelines vary in diameter from 4 inches to 14 inches.

The southern part of the Central Valley contains the most productive oil and gas fields in California. Included in this region is the area between the cities of Wasco and Shafter. There are two alignment alternatives proposed for the Wasco-Shafter area; the Through Wasco-Shafter (WS1) and the Wasco-Shafter Bypass (WS2). The area northeast of Bakersfield also supports active oil fields through which the three FB Bakersfield alternatives (Bakersfield Urban [B1], Bakersfield Urban [B2], and Bakersfield Urban [B3]) pass.

The FB Regional Consultant memorandum, *FB Oil Well/HSR Conflicts — Basis of October 2013 Data Table and Mapbook Update* (URS/HMM/Arup 2013), outlines the oil well/high-speed train (HST) conflicts along all FB alternatives. Based on data available from the California Department of Oil, Gas, and Geothermal Resources as of August 2013, the Through Wasco-Shafter Alternative has no active oil and gas wells, 2 new oil and gas wells, and 1 plugged oil and gas well within the prescribed 200-foot safety buffer zone (Parsons Brinckerhoff, 2013). The Wasco-Shafter Bypass Alternative has 7 active oil and gas wells, 6 new oil and gas wells, and 1 plugged oil and gas well within the 200-foot safety buffer zone. The Bakersfield Urban [B1] Alternative has 2 active oil and gas wells, no new oil and gas wells, and 2 plugged oil and gas wells within the 200-foot safety buffer zone. The Bakersfield Urban [B2] Alternative has 3 active oil and gas wells, no new oil and gas wells, and 3 plugged oil and gas wells within the 200-foot safety buffer zone. The Bakersfield Urban [B3] Alternative has 3 active oil and gas wells, no new oil and gas wells, and 3 plugged oil and gas wells within the 200-foot safety buffer zone.

HSR impacts on oil wells, ancillary equipment (e.g. hydraulic fracturing chemical tanks), and associated transmission piping may have significant relocation costs. The location and extent of collection piping is unknown. Approximate abandonment and relocation costs for oil and gas wells and water disposal wells in the project area are presented in a draft technical report, *Draft Assessment of Oil, Gas and Disposal*

Well Relocation Costs, Wasco-Shafter Alignment Alternatives, Fresno to Bakersfield Section (Cook 2013). Vintage Production, a subsidiary of Occidental Petroleum, also has estimated costs to mitigate impacts on oil and gas wells and production systems under their control in the North Shafter and Rose oil fields in the vicinity of the Wasco-Shafter Bypass and Through Wasco-Shafter alignments (Vintage Production California LLC, 2013a).

3.1.2 Natural Gas

Currently available information indicates that there are 140 locations where the construction of a roadway grade separation, HST tracks, or the columns of an HST viaduct will potentially affect the existing underground natural gas lines. The owners of the utilities within the identified impact areas are Pacific Gas and Electric (PG&E), Sempra Energy Company, Conoco Phillips, and Shell Oil Company. The pipelines vary in diameter from 3 inches to 24 inches, with one PG&E line rated at greater than 60 pounds per square inch.

3.1.3 Aboveground Electric Transmission Lines

Currently available information indicates that there are 119 locations where proposed construction will potentially require the modification or relocation of existing transmission lines, which range from 69 kV to 230 kV. PG&E is the utility owner of the transmission lines in all areas of impact. There are two scenarios where the HST directly affects transmission lines: where the HST viaduct traverses the transmission lines or where the transmission lines traverse over the HST track.

The Engineering Management Team Memorandum titled *Guidance – Establishing Overhead Utility Clearance Requirements for CHSTP Alignments* (Parsons Brinkerhoff 2010) outlines the process for identifying the need for relocating transmission lines within the project area. The process outlined in the memo will be used to determine the exact relocations necessary.

General Order 95 prescribed by the California Public Utilities Commission (2012) details the rules for overhead electric line construction. Vertical clearance above crossing or paralleling tracks of railroads operated by overhead trolleys is 34 feet (Rule 37, Table 1). Vertical clearance between wires is 96 inches (plus 0.4 inches for each kV above 150kV) (Rule 38, Table 2). Those clearances are based on supply conductors between 22.5 kV and 300 kV. The transmission lines and the overhead contact system feeder wires should not be in conflict. Conflicting Lines (lines in conflict or conflicts) mean lines so situated with respect to each other (except at crossings) that the overturning of one line will result in contact of its poles or conductors with the poles or conductors of the second line, assuming no conductors are broken in either line except that lines on opposite sides of a thoroughfare are not considered as conflicting if separated by a distance not less than 60 percent of the height of the higher pole line above the ground line and in no case less than 20 feet (Rule 22.1-A and Appendix G, Figure 1).

The HST track on the H, K3, and K4 alignments closely parallels transmission lines, resulting in direct and indirect impacts in the area between Excelsior Avenue and Jackson Avenue in the City of Hanford. A sample direct impact to the transmission lines will be when the HST rail or facilities require the relocation of the transmission lines due to construction. A sample indirect impact to the transmission lines will occur when the vertical clearance between the roadway surface and the transmission lines is less than required due to the rise in the vertical profile of the proposed grade separation. The transmission lines in this situation will need to be raised to achieve the appropriate vertical clearance from the roadway surface. Once the preferred alignment is chosen, additional indirect impacts to transmission lines are expected to arise.

The types of transmission line towers encountered by the proposed HST alignments include wood, steel H-frame, and steel-lattice towers. There appear to be 28 towers that would be directly impacted by the various HST alignments and roadway crossings, which are as follows:

- One northeast of Hanford, north of Elder Avenue along the H alignment.

- Eight east of Hanford between Grangeville Boulevard and State Route (SR) 198 along the H alignment.
- Six west of Hanford at Hanford Armona Road, Houston Avenue, SR 198, Fargo Avenue, Elder Avenue, and Excelsior Avenue grade separations along each of the HW and HW2 alignments.
- One southwest of Hanford at Iona Avenue along each of the HW, K5, and K6 alignments.
- Two north of Corcoran between Idaho Avenue and Jackson Avenue along each of the C1, C2, and C3 alignments.
- One between Avenue 88 and Avenue 108 along the P alignment.
- One north of SR 58 in west Bakersfield along each of the B1, B2, and B3 alignments.
- Three along Brimhall Road in Bakersfield along each of the B1, B2, and B3 alignments.
- Five in the vicinity of Kern River by Truxtun Avenue in Bakersfield along the B1, B2, and B3 alignments.

3.1.4 Water Pipe Lines

Currently available information indicates that there are 319 locations where construction of a roadway grade separation, HST tracks, or columns of an HST viaduct will potentially affect the existing underground water lines. The pipe diameters vary from 6 inches to 27 inches. The majority of impacts occur within the urban areas of the Fresno to Bakersfield section. Table 3.1-1 shows the number of impacts broken down by the individual alignments.

Table 3.1-1
Water Pipe Line Impacts

Water Pipe Diameter (inches)	HST Alignment Alternatives									
	F1	HW	HW2	C1	C2	C3	WS1	B1	B2	B3
6	9	-	-	1	-	6	1	39	52	19
8	4	-	-	2	-	4	1	27	24	10
10	5	-	-	2	-	2	-	6	3	-
12	7	5	4	-	-	1	2	13	13	14
14	3	-	-	-	-	-	2	-	1	-
16	-	-	-	5	1	5	-	3	7	2
18	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	1	-	-
21	-	-	-	-	-	-	-	1	2	1
24	-	2	2	-	1	-	-	-	-	-
27	-	-	-	-	1	-	-	1	1	1
Subtotal	28	7	6	10	3	18	6	91	103	47
Total	319									

3.2 Low-Risk Utilities

The following low-risk utilities are identified within the project limits:

- Low-voltage distribution lines.
- Telecommunication lines.
- Fiber-optic communication lines.
- Sanitary sewer lines.
- Drainage facilities.
- Storm drain lines.
- Water lines (less than 6-inch diameter).
- Irrigation canals and facilities.

There are several instances within the urban areas of Fresno, Corcoran, Wasco, Shafter, and Bakersfield where the footings from the HST viaduct columns will directly interfere with the existing low-risk utilities. In these cases, the utilities will need to be modified or relocated to avoid the proposed construction. Most of the low-risk utility impacts occur within the through-town alignments.

Within the rural areas, the main impact to the low-risk utilities is to the overhead power distribution and telecommunication lines. In these instances, the utilities will most likely be placed underground to avoid impact with the HST track or to conform to the proposed grade separation.

There are 25 locations where the construction of a grade separation, the HST track, or the columns of an HST viaduct will potentially affect the existing underground fiber-optic lines. The owners of these lines have not been identified. As with the petroleum lines, the fiber-optic lines typically run underground within a ditch alongside the BNSF railroad. Within the urban areas when the HST is on a viaduct, the column footings from the viaduct could potentially affect thousands of feet of the fiber-optic line. Relocation of the fiber-optic line would be required in these situations. There are also numerous grade separations that will traverse fiber-optic lines with an overhead structure. The structure will require columns, and the column footings could potentially affect the fiber-optic line at these locations.

Grade-separation structures are proposed to include utility openings that could be used to relocate utilities through the structure. When a low-risk utility cannot cross within the overhead structure, such as a gravity sanitary sewer line, or is not near a grade separation, it will cross in accordance with the CHSTP design requirements (Designer's Responsibilities and Utility Requirements for 15% Design Level).

There are several irrigation canals and ditches within the project limits. In some cases, canals and ditches will need to be realigned to conform to proposed improvements. Any necessary realignment will be coordinated with local districts. There will be other cases when a circular pipe or box culvert will be constructed to perpetuate the existing path and flow through proposed improvements. Coordination with the districts will be maintained throughout the design process to guarantee minimal impact to the existing irrigation system. Discussions regarding hydraulics and drainage are prepared under a separate cover titled *Record Set 15% Design Submission Fresno to Bakersfield Hydrology, Hydraulics, and Drainage Report*.

3.3 Special Utility Considerations

This section of the report discusses the utility impacts through the depressed segments along the HST F1 and HW2 alignments and proposed depressed roadway underpasses (UPs). A significant cost and schedule risk may be associated with the relocation of facilities impacted by depressed rail and road construction. The HST F1 alignment proposes to depress the track in the vicinity of Jensen Avenue, in the City of Fresno, approximately between stations 356+65 to 424+25. Special consideration for this segment will be taken because there are numerous sewer, water, and storm drain facilities that run

below the HST alignment that will be affected. The depressed section varies in depth from 0 feet to approximately 6 feet. See Appendix E for the identified utilities that will be affected by the depressed alignment.

Another location for special consideration is the HST HW2 alignment approximately between stations 1781+54 to 1905+85. This depressed section varies in depth from 0 feet to approximately 35 feet. See Appendix E for the identified utilities that will be affected by the proposed alignment.

The proposed depressed roadways within the Fresno (F1) alignment are Fresno Street UP and Tulare Street UP. The Hanford West Bypass (HW) alignment includes East Conejo Avenue UP, Grangeville Boulevard UP, West Lacey Boulevard UP, and 13th Avenue UP. The Hanford West Bypass (HW2) alignment includes East Conejo Avenue UP, and Grangeville Boulevard UP. The Kaweah (K1) alignment includes Idaho Avenue UP, 12th Avenue UP, and 11th Avenue UP. The Kaweah (K2) alignment includes Idaho Avenue UP, 12th Avenue UP, 11th Avenue UP, Kent Avenue UP, and Kansas Avenue UP. The Kaweah (K3) alignment only has the SR43UP. The Kaweah (K4) alignment only has the SR43 UP. The Kaweah (K5) alignment includes Idaho Avenue UP, 12th Avenue UP, and 11th Avenue UP. The Kaweah (K6) alignment includes Idaho Avenue UP, 12th Avenue UP, 11th Avenue UP, Kent Avenue UP, and Kansas Avenue UP. The Corcoran Bypass (C2) alignment only has the SR 137 UP. The Through Wasco-Shafter (WS1) alignment only has the Kimberlina Avenue UP. The Bakersfield Urban (B1), Bakersfield Urban (B2), and Bakersfield Urban (B3) alignments only have the Santa Fe Way UP. Some utilities in this area will need to be relocated outside the limits of work. For more detailed information, see Appendix E.

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Section 4.0

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Appendix A

Utility Contact Information

FB - Utility Contact Information

No.	Region	Owner (Counties)	Contact	Title	Address	Phone	E-mail
1	URS/HMM/Arup Joint Venture	Fresno	Alan Weaver	Public Works Director	2220 Tulare St. 6th Floor Fresno, CA 93721	559.600.4078	aweaver@co.fresno.ca.us
2	URS/HMM/Arup Joint Venture	Kern	Lorelei Oviatt	Planning Director	2700 "M" St. Suite 100 Bakersfield CA 93301	661.862.8866	LoreleiO@co.kern.ca.us
3	URS/HMM/Arup Joint Venture	King	Kevin McAlister	Public Works Director	1400 W. Lacey Blvd. Hanford, CA 93230	559.582.3211	kevin.mcalister@co.kings.ca.us
4	URS/HMM/Arup Joint Venture	Tulare	Britt L. Fussel	Assist. RMA Director	5961 South Mooney Blvd. Visalia, CA 93277		bfussel@co.tulare.ca.us
No.	Region	Owner (Cities)	Contact	Title	Address	Phone	E-mail
5	URS/HMM/Arup Joint Venture	Bakersfield	Paul M. Rojas	Public Works Director	1501 Truxton Avenue, 2nd Floor, Bakersfield, CA 93301	661.326.3724	
6	URS/HMM/Arup Joint Venture	Corcoran	Steve Kroeker	Public Works Director	832 Whitley Avenue, Corcoran, CA 93212	559.992.2151 x262	steve.kroeker@cityofcorcoran.com
7	URS/HMM/Arup Joint Venture	Delano	Roman Dowling	Public Works Director	725 S. Lexington St. Delano, CA 93	661.721.3300 x673	rdowling@cityofdelano-ca.org
8	URS/HMM/Arup Joint Venture	Fresno	Scott Mozier	Assist. Public Works Director	2600 Fresno Street, 4th Floor, Fresno Ca. 93721	559.621.8811	scott.mozier@fresno.gov
9	URS/HMM/Arup Joint Venture	Hanford	Lou Camera	Public Works Director	900 S. 10th Avenue, Hanford, CA 93230	559.585.2567	lcamera@ci.hanford.ca.us
10	URS/HMM/Arup Joint Venture	McFarland	Mario Gonzales	Acting Public Works Director	401 W. Kern Ave., Mc Farmland, CA 93250	661.792.3091	mgonzales@mcfarlandcity.org
11	URS/HMM/Arup Joint Venture	Selma	Robert Weaver	Public Works Director	1710 Tucker Street, Selma, CA 93662	559.891.2200 x2215	rbow@cityofselma.com
12	URS/HMM/Arup Joint Venture	Shafter	Michael James	Public Works Director	336 Pacific Avenue, Shafter, CA 93263	661.746.5002	mjames@shafter.com
13	URS/HMM/Arup Joint Venture	Tulare	Lew Nelson	Public Works Director	3981 South "K" Street Tulare, CA 93274	559.685.4318	lnelson@ci.tulare.ca.us
14	URS/HMM/Arup Joint Venture	Visalia	Andrew Benelli	Public Works Director	315 E. Acequia Avenue, Visalia, CA 93291	559.713.4340	abenelli@ci.visalia.ca.us
15	URS/HMM/Arup Joint Venture	Wasco	Daniel Allen	Public Works Director	801 8th Street Wasco, CA 93280	661.758.7214 x7270	daallen@ci.wasco.ca.us
No.	Region	Owner (Public Utilities)	Contact	Title	Address	Phone	E-mail
		California Water Service Company (4 Districts)					
16	URS/HMM/Arup Joint Venture	• Selma District	Tammy Johnson	Local Manager	2042 Second Street Selma, CA 93662	559.896.4546	
17	URS/HMM/Arup Joint Venture	• Visalia District	Scott Bailey	District Manager	216 North Valley Oaks Drive, Visalia, CA 93292	559.624.1600	sbailey@calwater.com
18	URS/HMM/Arup Joint Venture	• Kern River Valley District	Chris Whitley	Local Manager	7138 Lake Isabella Blvd. Lake Isabella, CA 93240	760.379.5336	cwhitley@calwater.com
19	URS/HMM/Arup Joint Venture	• Bakersfield District	Rudy Valles, Jr.	District Manager	3725 South "H" Street, Bakersfield, CA 93304	661.837.7200	
20	URS/HMM/Arup Joint Venture	Chevron	Mike Oliphant	Environmental Project Manager	6001 Bollinger Canyon Road, San Ramon, CA 94583	925-790-6431	mike.oliphant@chevron.com
21	URS/HMM/Arup Joint Venture	Kinder Morgan	Pipeline Inquiries	Kinder Morgan Energy Partners	1100 West Town and County Road Orange, CA. 92868	714.560.4908	
22	URS/HMM/Arup Joint Venture	PG&E	Dale Overbay	Land Agent	1455 East Shaw Avenue, Fresno, CA. 93710	559.263.7372	DWO4@pge.com
23	URS/HMM/Arup Joint Venture	Science Applications International Corp (SAIC)	Thomas A. Burns	Consulting Engineer	3800 Watt Avenue, Suite 210, Sacramento, Ca 95821	916-979-3748	thomas.a.burns@saic.com
24	URS/HMM/Arup Joint Venture	Southern California Edison	David S. Loftin	Planner	2244 Walnut Grove Ave., G01 Room 475 Rosemead, CA 91770	559.684.3557	David.Loftin@sce.com
25	URS/HMM/Arup Joint Venture	Southern California Gas Company	Jessie Perry	Public Relations Manager	404 North Tipton Street, Visalia, CA. 93292	559.739.2337	
No.	Region	Owner (Telecommunication)	Contact	Title	Address	Phone	E-mail
26	URS/HMM/Arup Joint Venture	AT&T	Sabrina Loewer-Hunt	Project/Program Support	9390 Gateway Dr., Ste 250, Reno, NV. 89523		sl1889@att.com
27	URS/HMM/Arup Joint Venture	Charter Communication Cable	Johnny Sanchez	Designer	151 N. Main Porterville CA 93257	559.560.5323	Johnny.Sanchez@chartercom.com
28	URS/HMM/Arup Joint Venture	Comcast Cable	Michael Sue	System Design Engineer	2441 N. Grove Industrial Drive Fresno, 93727	559.455.4221	michael_sue@cable.comcast.com
29	URS/HMM/Arup Joint Venture	Verizon - Telecom	Don Mroz	Engineer	1359 "G" Street, Reedley, CA. 93654	559.637.0066	don.mroz@verizon.com

FB - Utility Contact Information

No.	Region	Owner (Irrigation Districts)	Contact	Title	Address	Phone	E-mail
30	URS/HMM/Arup Joint Venture	Alpaugh ID	Kevin Couch	General Manager	5458 Road 38, Alpaugh, CA 93201	559.949.8323	alpaugh93201@aol.com
31	URS/HMM/Arup Joint Venture	Alta Irrigation District	Chris M. Kapheim	General Manager	289 North "L" Street Dinuba, CA 93618	559.591.0800 x13	cmk@altaid.org
32	URS/HMM/Arup Joint Venture	Atwell Island ID	Kevin Couch	Secretary / Manager	P.O. Box 129, Alpaugh, CA 93201	559.949.8323	alpaugh93201@aol.com
33	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	Phil Desetoff	District Manager	2255 Chandler St., Selma CA 93662	559.896.1660	pdesatoff@cidwater.com
34	URS/HMM/Arup Joint Venture	Corcoran Irrigation District	Carlo Wilcox	Manager	1150 6 1/2 Avenue, Corcoran, CA 93212	559.992.5165	wilcox_carlo@gmail.com
35	URS/HMM/Arup Joint Venture	Delano-Earlmarl Irrigation District	Dale Brogan	District Manager	14181 Ave. 24, Delano, CA 93215	661.725.2526	dbrogan@deid.org
36	URS/HMM/Arup Joint Venture	Fresno Irrigation District	Bill Stretch	Chief Engineer	2907 South Maple, Fresno, CA 93725	559.233.7161	bstretch@fresnoirrigation.com
37	URS/HMM/Arup Joint Venture	Laguna Irrigation District	Scott Sills	General Manager	5065 19-1/2 Avenue, Riverdale, CA 93656	559.923.4239	scott.lid@starband.net
38	URS/HMM/Arup Joint Venture	Lakeside Irrigation District	Andy Hemans	District Manager	9304 Houston Ave., Hanford, CA. 93230	559.584.3396	-
39	URS/HMM/Arup Joint Venture	Lower Tule River Irrigation District	Dan Vink	General Manager	357 East Olive Avenue, Tipton, CA 93272	559.686.4716	lvrid@lirid.org
40	URS/HMM/Arup Joint Venture	Pixley Irrigation District	Dan Vink	General Manager	357 East Olive Avenue, Tipton, CA 93272	559.686.4716	dvink@lirid.org
41	URS/HMM/Arup Joint Venture	Shafter-Wasco Irrigation District	Jerry Ezell	General Manager	16294 Highway 43, Wasco, CA 93280	661.758.5153	swid@lightspeed.net
42	URS/HMM/Arup Joint Venture	South San Joaquin ID	Bere Lindley	F and A Manager	11011 E. Highway 120, Manteca, CA. 95336	209.249.4600	blindley@ssjid.com
43	URS/HMM/Arup Joint Venture	Tulare Irrigation District	Aaron Fukuda	Engineer	6826 Avenue 240, Tulare, CA. 93274	559.686.3425	akf@tulareid.org
No.	Region	Owner (Water Districts)	Contact	Title	Address	Phone	E-mail
44	URS/HMM/Arup Joint Venture	Angiola Water District	Matt Hurley	General Manager	944 Whitley Ave. Suite A, Corcoran, CA. 93212	559.992.8980	-
45	URS/HMM/Arup Joint Venture	Boswell Company	Walter Bricker	General Manager	26073 Santa Fe, Corcoran, CA. 93212	559.992.5011	wbricker@jgbosewell.com
46	URS/HMM/Arup Joint Venture	Cawelo WD	David Ansolabehe	Manager	17207 Industrial Farm Road, Bakersfield, CA 933308	661.393.6070	dansolabehe@cawelowd.org
47	URS/HMM/Arup Joint Venture	Kern Delta Water District	Dirk Reed	General Manager	501 Taft Highway, Bakersfield, CA 93307	661.834.4656	dreed@kerndelta.org
48	URS/HMM/Arup Joint Venture	Kings County Water District	Don Mills	General Manager	200 N. Campus Drive, Hanford, CA. 93230	559.584.6412	kcwdh20@sbcglobal.net
49	URS/HMM/Arup Joint Venture	Liberty Water District	Kevin Johansen	Consulting Engineer	286 W. Cromwell Ave., Fresno, CA. 93711	559.326.1100	kjohansen@ppeng.com
50	URS/HMM/Arup Joint Venture	Malaga County Water District	Russ Holcomb	General Manager	3580 South Frank Street, Fresno, CA 93725	559.485.7353	rholcomb@malagacwd.org
51	URS/HMM/Arup Joint Venture	Melga Water District	Walter Bricker	Manager	26073 Santa Fe, Corcoran, CA. 93212	559.992.5011	wbricker@jgbosewell.com
52	URS/HMM/Arup Joint Venture	North Kern Water Storage District	Dana Mudd	General Manager	33380 Cawelo Avenue, Bakersfield, CA. 93308	661.393.2696	northkern@aol.com
53	URS/HMM/Arup Joint Venture	San Luis & Delta-Mendota Water Authority	Dan Nelson	CEO	P.O. Box 2157, Los Banos, CA. 93635	209.826.9696	susan.mussett@sldmwa.org
54	URS/HMM/Arup Joint Venture	Semitropic Water Storage District	Will Boshman	General Manager	1101 Central Avenue, Wasco, CA 93280	661.758.5113	wboshman@semitropic.com
No.	Region	Owner (Conservation Districts)	Contact	Title	Address	Phone	E-mail
55	URS/HMM/Arup Joint Venture	Kaweah-Delta Water Conservation District	Mark Larsen	General Manager	2975 N. Farmersville Blvd., Farmersville, CA. 93223	559.747.5601	mlarsen@kdwcd.com
56	URS/HMM/Arup Joint Venture	Kings River Conservation District	David Orth	General Manager (Donna Pepper)	4886 East Jensen Avenue, Fresno, CA 93725	559.237.5567	dpepper@krcd.org
No.	Region	Owner (Flood Control Districts)	Contact	Title	Address	Phone	E-mail
57	URS/HMM/Arup Joint Venture	Fresno Metropolitan Flood Control District	Jerry Lakeman	District Engineer	5469 East Olive, Fresno, CA 93727	559.456.3292	jerryl@fresnofloodcontrol.org
No.	Region	Owner (Sanitation Districts)	Contact	Title	Address	Phone	E-mail
58	URS/HMM/Arup Joint Venture	North of River Sanitation District	John Lamar	General Manager	204 Universe Ave., Bakersfield, CA 93308	661.399.6411	jlamar@norsd.com
59	URS/HMM/Arup Joint Venture	Selma Kingsburg Fowler (SKF)	Veronica Cazares	Engineer	11301 E. Conejo Ave Kingsburg CA 93631	559.897.6500	vcacazares@skfcsd.org

Appendix B

High-Risk Utility Information Log

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
1	URS/HMM/Arup Joint Venture	Kinder Morgan Inc.		F1	258+62 to 270+64	Stanislaus St & Tuolumne St.	Petroleum	8	inch	1209		Relocated
2	URS/HMM/Arup Joint Venture	PG&E		F1	291+20	Tulare St Kern St	Natural Gas	8	inch	235		Relocated
3	URS/HMM/Arup Joint Venture	PG&E		F1	340+43	S Cherry Ave	Natural Gas	8	inch	178		Relocated
4	URS/HMM/Arup Joint Venture	PG&E		F1	356+23	E Florence Ave	Transmission Lines	115	kV	162		Relocated
5	URS/HMM/Arup Joint Venture	PG&E		F1	379+38	S East Ave	Transmission Lines	115	kV	204		Relocated
6	URS/HMM/Arup Joint Venture	PG&E		F1	380+09	S East Ave	Transmission Lines	69	kV	204		Relocated
7	URS/HMM/Arup Joint Venture	PG&E		F1	446+09	S Golden State Blvd	Natural Gas	8	inch	90		Relocated
8	URS/HMM/Arup Joint Venture	Kinder Morgan Inc.		F1	452+01	S Golden State Blvd	Petroleum	8	inch	90		Relocated
9	URS/HMM/Arup Joint Venture	PG&E		F1	516+11 to 522+86	E Central Ave	Natural Gas	8	inch	685		Relocated
10	URS/HMM/Arup Joint Venture	Unknown		F1	524+38	E Central Ave	Petroleum	-	inch	130		Relocated
11	URS/HMM/Arup Joint Venture	Unknown		M	686+10	E Adams Ave	Natural Gas	-	inch	146		Relocated
12	URS/HMM/Arup Joint Venture	PG&E		M	790+17	E Manning Ave	Natural Gas	6	inch	136		Relocated
13	URS/HMM/Arup Joint Venture	PG&E		M	831+42	-	Transmission Lines	230	kV	924		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
14	URS/HMM/Arup Joint Venture	PG&E		M	832+19	-	Transmission Lines	115	kV	137		Relocated
15	URS/HMM/Arup Joint Venture	Sempra Energy Company		M	898+75	E Floral Ave	Natural Gas	8	inch	157		Relocated
16	URS/HMM/Arup Joint Venture	Sempra Energy Company		M	909+32	-	Natural Gas	8	inch	164		Relocated
17	URS/HMM/Arup Joint Venture	Sempra Energy Company		M	909+33	-	Natural Gas	9	inch	165		Relocated
18	URS/HMM/Arup Joint Venture	Sempra Energy Company		M	952+65	E Nebraska Ave	Natural Gas	3	inch	141		Relocated
19	URS/HMM/Arup Joint Venture	Sempra Energy Company		H	1114+51		Natural Gas	6	inch	87		Relocated
20	URS/HMM/Arup Joint Venture	Sempra Energy Company		H	1119+33	E Conejo Ave	Natural Gas	6	inch	87		Relocated
21	URS/HMM/Arup Joint Venture	Sempra Energy Company		H	1119+80	E Conejo Ave	Natural Gas	10	inch	87		Relocated
22	URS/HMM/Arup Joint Venture	PG&E		H	1465+81	SR 143	Transmission Lines	70	kV	104		Relocated
23	URS/HMM/Arup Joint Venture	PG&E		H	1749+40 to 1764+97	Elder Ave	Transmission Lines	115	kV	1560		Relocated
24	URS/HMM/Arup Joint Venture	PG&E		H	1949+95 to 1957+32	-	Transmission Lines	115	kV	736		Relocated
25	URS/HMM/Arup Joint Venture	Sempra Energy Company		H	1950+06	-	Natural Gas	12	inch	172		Relocated
26	URS/HMM/Arup Joint Venture	Sempra Energy Company		H	1959+58 to 1960+54	Ponderosa Rd	Natural Gas	2	inch	112		Relocated

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F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
27	URS/HMM/Arup Joint Venture	Sempra Energy Company		H	1976+24	Lacey Blvd	Natural Gas	6	inch	176		Relocated
28	URS/HMM/Arup Joint Venture	Sempra Energy Company		H	1978+17	7th Road	Natural Gas	12	inch	172		Relocated
29	URS/HMM/Arup Joint Venture	Sempra Energy Company		H	2029+37	Hanford Armona Rd	Natural Gas	2	inch	122		Relocated
30	URS/HMM/Arup Joint Venture	unknown		H	2089+35	Houston Ave	Natural Gas	2	inch	120		Relocated
31	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1114+33	E Conejo Ave	Natural Gas	6	inch	145		Relocated
32	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1119+07	E Conejo Ave	Natural Gas	6	inch	144		Relocated
33	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1119+53	E Conejo Ave	Natural Gas	10	inch	144		Relocated
34	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1445+51	E Mt Whitney Ave	Natural Gas	3	inch	80		Relocated
35	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1743+64	-	Natural Gas	8	inch	143		Relocated
36	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1770+77	Grangeville Blvd	Natural Gas	8	inch	127		Relocated
37	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1815+38 to 1821+36	13th Ave	Natural Gas	6	inch	513		Relocated
38	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1825+58	Lacey Blvd	Natural Gas	4	inch	195		Relocated
39	URS/HMM/Arup Joint Venture	-		HW	1836+96		Natural Gas	-	inch	267		Relocated

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F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
40	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1879+88	Hanford Armona Rd	Natural Gas	6	inch	154		Relocated
41	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1880+10	Hanford Armona Rd	Natural Gas	6	inch	154		Relocated
42	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW	1880+15	Hanford Armona Rd	Natural Gas	16	inch	154		Relocated
43	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1114+33	E Conejo Ave	Natural Gas	6	inch	145		Relocated
44	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1119+07	E Conejo Ave	Natural Gas	6	inch	144		Relocated
45	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1119+53	E Conejo Ave	Natural Gas	10	inch	144		Relocated
46	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1445+51	E Mt Whitney Ave	Natural Gas	3	inch	80		Relocated
47	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1742+96	-	Natural Gas	8	inch	123		Relocated
48	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1769+98	Grangeville Blvd	Natural Gas	8	inch	136		Relocated
49	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1825+00	Lacey Blvd	Natural Gas	4	inch	396		Relocated
50	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1826+68 to 1844+71	13th Ave	Natural Gas	12	inch	1865		Relocated
51	URS/HMM/Arup Joint Venture	-		HW2	1836+69	13th Ave	Natural Gas	-	inch	507		Relocated
52	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1879+48	Hanford Armona Rd	Natural Gas	6	inch	407		Relocated

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F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
53	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1879+69	Hanford Armona Rd	Natural Gas	6	inch	407		Relocated
54	URS/HMM/Arup Joint Venture	Sempra Energy Company		HW2	1879+74	Hanford Armona Rd	Natural Gas	16	inch	407		Relocated
55	URS/HMM/Arup Joint Venture	PG&E		K1	2101+35	Jackson Ave	Transmission Lines	115	kV	153		Relocated
56	URS/HMM/Arup Joint Venture	PG&E		K1	2180+63 to 2183+83	S 11th Ave	Transmission Lines	230	kV	361		Relocated
57	URS/HMM/Arup Joint Venture	Sempra Energy Company		K1	2181+35 to 2184+57	S 11th Ave	Natural Gas	2	inch	362		Relocated
58	URS/HMM/Arup Joint Venture	PG&E		K1	2219+72	Kent Ave	Transmission Lines	69	kV	121		Relocated
59	URS/HMM/Arup Joint Venture	PG&E		K2	2100+58	Jackson Ave	Transmission Lines	115	kV	124		Relocated
60	URS/HMM/Arup Joint Venture	PG&E		K2	2211+30	Kent Ave	Transmission Lines	69	kV	136		Relocated
61	URS/HMM/Arup Joint Venture	PG&E		K2	2219+46 to 2222+78	S 11th Ave	Transmission Lines	230	kV	385		Relocated
62	URS/HMM/Arup Joint Venture	Sempra Energy Company		K2	2220+13 to 2223+44	S 11th Ave	Natural Gas	2	inch	384		Relocated
63	URS/HMM/Arup Joint Venture	PG&E		K3	2099+46 to 2113+89	Idaho Ave	Transmission Lines	115	kV	1472		Relocated
64	URS/HMM/Arup Joint Venture	Sempra Energy Company		K3	2118+85	Idaho Ave	Natural Gas	2	inch	130		Relocated
65	URS/HMM/Arup Joint Venture	PG&E		K3	2138+24 to 2152+35		Transmission Lines	115	kV	1418		Relocated

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F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
66	URS/HMM/Arup Joint Venture	Sempra Energy Company		K3	2172+43	Jackson Ave	Natural Gas	3	inch	146		Relocated
67	URS/HMM/Arup Joint Venture	PG&E		K3	2172+47	Jackson Ave	Transmission Lines	115	kV	146		Relocated
68	URS/HMM/Arup Joint Venture	PG&E		K4	2100+41 to 2115+00	Idaho Ave	Transmission Lines	115	kV	1472		Relocated
69	URS/HMM/Arup Joint Venture	Sempra Energy Company		K4	2119+83	Idaho Ave	Natural Gas	2	inch	128		Relocated
70	URS/HMM/Arup Joint Venture	PG&E		K4	2132+14 to 2145+62		Transmission Lines	115	kV	1354		Relocated
71	URS/HMM/Arup Joint Venture	Sempra Energy Company		K4	2173+54	Jackson Ave	Natural Gas	3	inch	133		Relocated
72	URS/HMM/Arup Joint Venture	PG&E		K4	2173+58	Jackson Ave	Transmission Lines	115	kV	133		Relocated
73	URS/HMM/Arup Joint Venture	PG&E		K5	2102+50	Jackson Ave	Transmission Lines	115	kV	141		Relocated
74	URS/HMM/Arup Joint Venture	PG&E		K5	2179+86 to 2182+55	S 11th Ave	Transmission Lines	230	kV	299		Relocated
75	URS/HMM/Arup Joint Venture	Sempra Energy Company		K5	2180+62 to 2183+31	S 11th Ave	Natural Gas	2	inch	299		Relocated
76	URS/HMM/Arup Joint Venture	PG&E		K5	2219+05	Kent Ave	Transmission Lines	69	kV	160		Relocated
77	URS/HMM/Arup Joint Venture	PG&E		K6	2100+77	Jackson Ave	Transmission Lines	115	kV	125		Relocated
78	URS/HMM/Arup Joint Venture	PG&E		K6	2202+62 to 2205+26	S 11th Ave	Transmission Lines	230	kV	290		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
79	URS/HMM/Arup Joint Venture	Sempra Energy Company		K6	2203+42 to 2205+99	S 11th Ave	Natural Gas	2	inch	286		Relocated
80	URS/HMM/Arup Joint Venture	PG&E		K6	2215+07	Kent Ave	Transmission Lines	69	kV	140		Relocated
81	URS/HMM/Arup Joint Venture	Sempra Energy Company		C1	2749+79	Orange Ave	Natural Gas	6	inch	167		Relocated
82	URS/HMM/Arup Joint Venture	PG&E		C1	2751+25	Orange Ave	Transmission Lines	70	kV	92		Relocated
83	URS/HMM/Arup Joint Venture	Sempra Energy Company		C1	2784+29	Brokaw Ave	Natural Gas	2	inch	92		Relocated
84	URS/HMM/Arup Joint Venture	Sempra Energy Company		C1	2806+40	Pickerell Ave	Natural Gas	4	inch	75		Relocated
85	URS/HMM/Arup Joint Venture	Sempra Energy Company		C1	2807+67 to 2818+00	Pickerell Ave	Natural Gas	3	inch	1230		Relocated
86	URS/HMM/Arup Joint Venture	Sempra Energy Company		C1	2812+14 to 2915+85	-	Natural Gas	6	inch	10481		Relocated
87	URS/HMM/Arup Joint Venture	Sempra Energy Company		C1	2995+63	Poplar Ave	Natural Gas	8	inch	273		Relocated
88	URS/HMM/Arup Joint Venture	Sempra Energy Company		C2	2708+25	Newark Ave	Natural Gas	2	inch	174		Relocated
89	URS/HMM/Arup Joint Venture	Sempra Energy Company		C2	2718+95	5 1/2 Ave	Natural Gas	6	inch	182		Relocated
90	URS/HMM/Arup Joint Venture	PG&E		C2	2719+17	5 1/2 Ave	Transmission Lines	115	kV	182		Relocated
91	URS/HMM/Arup Joint Venture	PG&E		C2	2734+81 to 2740+57	-	Transmission Lines	115	kV	591		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
92	URS/HMM/Arup Joint Venture	PG&E		C2	2765+63	Orange Ave	Transmission Lines	110	kV	171		Relocated
93	URS/HMM/Arup Joint Venture	Sempra Energy Company		C2	2997+44	Poplar Ave	Natural Gas	8	inch	164		Relocated
94	URS/HMM/Arup Joint Venture	Sempra Energy Company		C3	2749+79	Orange Ave	Natural Gas	6	inch	167		Relocated
95	URS/HMM/Arup Joint Venture	PG&E		C3	2751+25	Orange Ave	Transmission Lines	70	kV	92		Relocated
96	URS/HMM/Arup Joint Venture	Sempra Energy Company		C3	2784+29	Brokaw Ave	Natural Gas	2	inch	92		Relocated
97	URS/HMM/Arup Joint Venture	Sempra Energy Company		C3	2806+40	Pickerell Ave	Natural Gas	4	inch	75		Relocated
98	URS/HMM/Arup Joint Venture	Sempra Energy Company		C3	2807+67 to 2818+00	Pickerell Ave	Natural Gas	3	inch	1230		Relocated
99	URS/HMM/Arup Joint Venture	Sempra Energy Company		C3	2812+14 to 2915+85	-	Natural Gas	6	inch	10481		Relocated
100	URS/HMM/Arup Joint Venture	Sempra Energy Company		C3	2995+63	Poplar Ave	Natural Gas	8	inch	273		Relocated
101	URS/HMM/Arup Joint Venture	PG&E		P	3381+04 to 3388+28	-	Transmission Lines	115	kV	914		Relocated
102	URS/HMM/Arup Joint Venture	Sempra Energy Company		A1	4380+08	Avenue 16	Natural Gas	10	inch	161		Relocated
103	URS/HMM/Arup Joint Venture	Sempra Energy Company		A1	4761+14	Magnolia Ave	Natural Gas	3	inch	257		Relocated
104	URS/HMM/Arup Joint Venture	Sempra Energy Company		A1	4786+60	Pond Road	Natural Gas	3	inch	149		Relocated

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No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
105	URS/HMM/Arup Joint Venture	Sempra Energy Company		A1	4843+78	Peterson Rd	Natural Gas	3	inch	135		Relocated
106	URS/HMM/Arup Joint Venture	Sempra Energy Company		A2	4419+79	Avenue 16	Natural Gas	10	inch	142		Relocated
107	URS/HMM/Arup Joint Venture	Sempra Energy Company		A2	4803+23	Pond Road	Natural Gas	3	inch	253		Relocated
108	URS/HMM/Arup Joint Venture	Sempra Energy Company		L1	5204+32 to 5208+83	-	Natural Gas	4	inch	462		Relocated
109	URS/HMM/Arup Joint Venture	Unknown		L1	5218+07	Blankenship Ave	Natural Gas	-	inch	233		Relocated
110	URS/HMM/Arup Joint Venture	Sempra Energy Company		L2	5204+32 to 5208+83	-	Natural Gas	4	inch	462		Relocated
111	URS/HMM/Arup Joint Venture	Unknown		L2	5218+07	Blankenship Ave	Natural Gas	-	inch	226		Relocated
112	URS/HMM/Arup Joint Venture	PG&E		L2	5423+24	-	Transmission Line	115	kV	128		Relocated
113	URS/HMM/Arup Joint Venture	PG&E		L2	5428+85	-	Transmission Line	69	kV	492		Relocated
114	URS/HMM/Arup Joint Venture	Unknown		L2	5551+54	Filburn Ave	Natural Gas	-	inch	190		Relocated
115	URS/HMM/Arup Joint Venture	Sempra Energy Company		L3	5179+49	-	Natural Gas	8	inch	136		Relocated
116	URS/HMM/Arup Joint Venture	Unknown		L3	5218+65	Blankenship Ave	Natural Gas	-	inch	266		Relocated
117	URS/HMM/Arup Joint Venture	Sempra Energy Company		L4	5179+49	-	Natural Gas	8	inch	136		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
118	URS/HMM/Arup Joint Venture	Unknown		L4	5218+65	Blankenship Ave	Natural Gas	-	inch	330		Relocated
119	URS/HMM/Arup Joint Venture	PG&E		L4	5423+17	-	Transmission Line	115	kV	129		Relocated
120	URS/HMM/Arup Joint Venture	PG&E		L4	5428+82	-	Transmission Line	69	kV	503		Relocated
121	URS/HMM/Arup Joint Venture	Unknown		L4	5552+97	Filburn Ave	Natural Gas	-	inch	190		Relocated
122	URS/HMM/Arup Joint Venture	PG&E		WS1	5517+03	-	Transmission Line	115	kV	387		Relocated
123	URS/HMM/Arup Joint Venture	PG&E		WS1	5522+31	-	Transmission Line	69	kV	137		Relocated
124	URS/HMM/Arup Joint Venture	Unknown		WS1	5996+83	Lerdo Hwy	Natural Gas	-	inch	113		Relocated
125	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS1	6013+59	Ash Ave	Natural Gas	4	inch	113		Relocated
126	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS1	6022+00	-	Natural Gas	16	inch	119		Relocated
127	URS/HMM/Arup Joint Venture	Unknown		WS1	6022+71	-	Natural Gas	-	inch	124		Relocated
128	URS/HMM/Arup Joint Venture	Unknown		WS1	6031+20	S. Beech Ave	Natural Gas	-	inch	471		Relocated
129	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS1	6031+45	S. Beech Ave	Natural Gas	-	inch	227		Relocated
130	URS/HMM/Arup Joint Venture	Unknown		WS1	6142+32	Burbank St	Petroleum	-	inch	163		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
131	URS/HMM/Arup Joint Venture	Unknown		WS1	6154+19 to 6313+86	Burbank St	Petroleum	-	inch	15969		Relocated
132	URS/HMM/Arup Joint Venture	PG&E		WS1	6246+71	-	Transmission Line	115	kV	200		Relocated
133	URS/HMM/Arup Joint Venture	Shell Oil Company		WS1	6269+26	Roxy Ln	Petroleum	14	inch	203		Relocated
134	URS/HMM/Arup Joint Venture	Unknown		WS1	6289+82	-	Natural Gas	-	inch	137		Relocated
135	URS/HMM/Arup Joint Venture	Unknown		WS1	6289+97	-	Petroleum	-	inch	137		Relocated
136	URS/HMM/Arup Joint Venture	Unknown		WS1	6292+17	Bowles St	Petroleum	-	inch	192		Relocated
137	URS/HMM/Arup Joint Venture	Unknown		WS1	6292+48	Bowles St	Petroleum	-	inch	192		Relocated
138	URS/HMM/Arup Joint Venture	Unknown		WS1	6293+28	-	Petroleum	-	inch	191		Relocated
139	URS/HMM/Arup Joint Venture	Unknown		WS1	6293+52	-	Natural Gas	-	inch	187		Relocated
140	URS/HMM/Arup Joint Venture	Unknown		WS1	6293+73	-	Petroleum	-	inch	184		Relocated
141	URS/HMM/Arup Joint Venture	Shell Oil Company		WS1	6297+86	-	Petroleum	-	inch	192		Relocated
142	URS/HMM/Arup Joint Venture	Exxon Mobil Corp		WS1	6302+18	-	Petroleum	6	inch	590		Relocated
143	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS1	6407+03	Rudd Ave	Natural Gas	-	inch	197		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
144	URS/HMM/Arup Joint Venture	Conoco Philips		WS1	6426+02	-	Petroleum	8	inch	193		Relocated
145	URS/HMM/Arup Joint Venture	Shell Oil Company		WS1	6429+55	-	Petroleum	12	inch	193		Relocated
146	URS/HMM/Arup Joint Venture	Unknown		WS1	6442+89	Reina St	Natural Gas	-	inch	192		Relocated
147	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS1	6448+54	-	Natural Gas	-	inch	194		Relocated
148	URS/HMM/Arup Joint Venture	Unknown		WS1	6485+05	-	Natural Gas	-	inch	196		Relocated
149	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS1	6487+39	-	Natural Gas	24	inch	199		Relocated
150	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS1	6503+95	-	Natural Gas	16	inch	197		Relocated
151	URS/HMM/Arup Joint Venture	Unknown		WS2	5709+48	Poplar Ave	Natural Gas	-	inch	235		Relocated
152	URS/HMM/Arup Joint Venture	Unknown		WS2	5746+11	Kimberlina Rd	Natural Gas	-	inch	139		Relocated
153	URS/HMM/Arup Joint Venture	Unknown		WS2	5792+26 to 5793+83	-	Petroleum	-	inch	138		Relocated
154	URS/HMM/Arup Joint Venture	Unknown		WS2	5822+80 to 5824+04	-	Petroleum	-	inch	107		Relocated
155	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS2	5900+12	Madera Ave	Natural Gas	16	inch	242		Relocated
156	URS/HMM/Arup Joint Venture	Unknown		WS2	5912+18 to 5915+81	Beech Ave	Petroleum	-	inch	520		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
157	URS/HMM/Arup Joint Venture	Oxy		WS2	5915+68	Beech Ave	Natural Gas	-	inch	237		Relocated
158	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS2	5916+65	Beech Ave	Natural Gas	-	inch	233		Relocated
159	URS/HMM/Arup Joint Venture	Oxy		WS2	5935+79	Fresno Ave	Natural Gas	-	inch	304		Relocated
160	URS/HMM/Arup Joint Venture	Unknown		WS2	5992+31	E Lerdo Hwy	Natural Gas	-	inch	140		Relocated
161	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS2	6008+50	-	Natural Gas	4	inch	141		Relocated
162	URS/HMM/Arup Joint Venture	PG&E		WS2	6205+77	-	Transmission Line	115	kV	206		Relocated
163	URS/HMM/Arup Joint Venture	Shell Oil Company		WS2	6226+74	Roxy Ln	Petroleum	14	inch	186		Relocated
164	URS/HMM/Arup Joint Venture	Unknown		WS2	6242+10 to 6313+46	Burbank St	Petroleum	-	inch	2812		Relocated
165	URS/HMM/Arup Joint Venture	Unknown		WS2	6246+14	-	Natural Gas	-	inch	81		Relocated
166	URS/HMM/Arup Joint Venture	Unknown		WS2	6246+29	-	Petroleum	-	inch	81		Relocated
167	URS/HMM/Arup Joint Venture	Unknown		WS2	6248+69	Bowles St	Petroleum	-	inch	111		Relocated
168	URS/HMM/Arup Joint Venture	Unknown		WS2	6248+99	Bowles St	Petroleum	-	inch	111		Relocated
169	URS/HMM/Arup Joint Venture	Unknown		WS2	6249+77	-	Petroleum	-	inch	110		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
170	URS/HMM/Arup Joint Venture	Unknown		WS2	6250+01	-	Natural Gas	-	inch	110		Relocated
171	URS/HMM/Arup Joint Venture	Unknown		WS2	6250+21	-	Petroleum	-	inch	109		Relocated
172	URS/HMM/Arup Joint Venture	Shell Oil Company		WS2	6254+28	-	Petroleum	-	inch	151		Relocated
173	URS/HMM/Arup Joint Venture	Exxon Mobil Corp		WS2	6258+55	-	Petroleum	6	inch	540		Relocated
174	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS2	6363+37	Rudd Ave	Natural Gas	-	inch	197		Relocated
175	URS/HMM/Arup Joint Venture	Conoco Philips		WS2	6382+36	-	Petroleum	8	inch	193		Relocated
176	URS/HMM/Arup Joint Venture	Shell Oil Company		WS2	6385+89	-	Petroleum	12	inch	193		Relocated
177	URS/HMM/Arup Joint Venture	Unknown		WS2	6399+23	Reina St	Natural Gas	-	inch	192		Relocated
178	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS2	6404+88	-	Natural Gas	-	inch	194		Relocated
179	URS/HMM/Arup Joint Venture	Unknown		WS2	6441+39	-	Natural Gas	-	inch	196		Relocated
180	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS2	6443+73	-	Natural Gas	24	inch	199		Relocated
181	URS/HMM/Arup Joint Venture	Sempra Energy Company		WS2	6460+28	-	Natural Gas	16	inch	197		Relocated
182	URS/HMM/Arup Joint Venture	Sempra Energy Company		B1	6815+70	-	Natural Gas	-	inch	191		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
183	URS/HMM/Arup Joint Venture	Chevron Corp.		B1	6836+68	-	Petroleum	10	inch	144		Relocated
184	URS/HMM/Arup Joint Venture	PG&E		B1	6846+45	-	Natural Gas	12	inch	211		Relocated
185	URS/HMM/Arup Joint Venture	PG&E		B1	6847+71	-	Transmission Line	230	kV	211		Relocated
186	URS/HMM/Arup Joint Venture	PG&E		B1	6851+76	-	Natural Gas	-	inch	211		Relocated
187	URS/HMM/Arup Joint Venture	Sempra Energy Company		B1	6853+42	-	Natural Gas	10	inch	148		Relocated
188	URS/HMM/Arup Joint Venture	PG&E		B1	6855+35	-	Transmission Line	230	kV	212		Relocated
189	URS/HMM/Arup Joint Venture	PG&E		B1	6863+14	-	Transmission Line	115	kV	206		Relocated
190	URS/HMM/Arup Joint Venture	PG&E		B1	6870+94	-	Transmission Line	115	kV	202		Relocated
191	URS/HMM/Arup Joint Venture	Unknown		B1	6877+32 to 6900+58	-	Petroleum	-	inch	2336		Relocated
192	URS/HMM/Arup Joint Venture	PG&E		B1	6878+73	-	Transmission Line	230	kV	202		Relocated
193	URS/HMM/Arup Joint Venture	PG&E		B1	6880+74	Rosedale Hwy	Transmission Line	-	kV	215		Relocated
194	URS/HMM/Arup Joint Venture	Shell Oil Company		B1	6912+86	-	Petroleum	8	inch	166		Relocated
195	URS/HMM/Arup Joint Venture	Unknown		B1	6915+60 to 6920+30	Verdugo Ln	Petroleum	-	inch	490		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
196	URS/HMM/Arup Joint Venture	Shell Oil Company		B1	6924+92	Palm Ave	Petroleum	6	inch	216		Relocated
197	URS/HMM/Arup Joint Venture	Shell Oil Company		B1	6931+05	Palm Ave	Petroleum	10	inch	183		Relocated
198	URS/HMM/Arup Joint Venture	PG&E		B1	6947+62	Slikker Dr	Transmission Line	-	kV	90		Relocated
199	URS/HMM/Arup Joint Venture	PG&E		B1	6976+89	-	Transmission Line	230	kV	84		Relocated
200	URS/HMM/Arup Joint Venture	PG&E		B1	6982+43	-	Transmission Line	230	kV	184		Relocated
201	URS/HMM/Arup Joint Venture	PG&E		B1	6987+91	Brimhall Rd	Transmission Line	69	kV	84		Relocated
202	URS/HMM/Arup Joint Venture	BP West Coast Products LLC		B1	6990+41	Brimhall Rd	Petroleum	10	inch	86		Relocated
203	URS/HMM/Arup Joint Venture	PG&E		B1	69933+32	-	Transmission Line	69	kV	82		Relocated
204	URS/HMM/Arup Joint Venture	PG&E		B1	6998+76	-	Transmission Line	69	kV	82		Relocated
205	URS/HMM/Arup Joint Venture	Unknown		B1	7002+39	Coffee Rd	Natural Gas	-	inch	82		Relocated
206	URS/HMM/Arup Joint Venture	Shell Oil Company		B1	7003+59	Coffee Rd	Petroleum	10	inch	81		Relocated
207	URS/HMM/Arup Joint Venture	PG&E		B1	7004+15	Coffee Rd	Transmission Line	115	kV	82		Relocated
208	URS/HMM/Arup Joint Venture	PG&E		B1	7009+51	-	Transmission Line	115	kV	81		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
209	URS/HMM/Arup Joint Venture	Conoca Philips		B1	7016+27	-	Petroleum	-	inch	108		Relocated
210	URS/HMM/Arup Joint Venture	Sempra Energy Company		B1	7021+92	-	Natural Gas	-	inch	85		Relocated
211	URS/HMM/Arup Joint Venture	Shell Oil Company		B1	7028+69	-	Petroleum	4	inch	111		Relocated
212	URS/HMM/Arup Joint Venture	Shell Oil Company		B1	7029+86	-	Petroleum	-	inch	98		Relocated
213	URS/HMM/Arup Joint Venture	Sempra Energy Company		B1	7054+65	-	Natural Gas	8	inch	80		Relocated
214	URS/HMM/Arup Joint Venture	PG&E		B1	7083+60	Mohawk St	Transmission Line	69	kV	82		Relocated
215	URS/HMM/Arup Joint Venture	Shell Oil Company		B1	7104+93	Truxtun Ave	Petroleum	10	inch	82		Relocated
216	URS/HMM/Arup Joint Venture	PG&E		B1	7110+73 to 7124+64	-	Transmission Line	115	kV	1432		Relocated
217	URS/HMM/Arup Joint Venture	Unknown		B1	7112+40 to 7120+62	-	Transmission Line	-	kV	850		Relocated
218	URS/HMM/Arup Joint Venture	Shell Oil Company		B1	7135+70	-	Petroleum	10	inch	172		Relocated
219	URS/HMM/Arup Joint Venture	PG&E		B1	7159+79	-	Transmission Line	69	kV	75		Relocated
220	URS/HMM/Arup Joint Venture	PG&E		B1	7165+63	-	Transmission Line	-	kV	70		Relocated
221	URS/HMM/Arup Joint Venture	PG&E		B1	7254+52 to 7265+73	-	Transmission Line	-	kV	1311		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
222	URS/HMM/Arup Joint Venture	Kinder Morgan		B1	7269+63 to 7269+85	-	Petroleum	-	inch	349		Relocated
223	URS/HMM/Arup Joint Venture	PG&E		B1	7270+25	Union Ave	Transmission Line	69	kV	191		Relocated
224	URS/HMM/Arup Joint Venture	Kinder Morgan		B1	7273+79 to 7281+69	-	Petroleum	-	inch	809		Relocated
225	URS/HMM/Arup Joint Venture	PG&E		B1	7280+75	-	Natural Gas	12	inch	179		Relocated
226	URS/HMM/Arup Joint Venture	Sempra Energy Company		B2	6815+12	-	Natural Gas	-	inch	191		Relocated
227	URS/HMM/Arup Joint Venture	Chevron Corp.		B2	6836+09	-	Petroleum	10	inch	144		Relocated
228	URS/HMM/Arup Joint Venture	PG&E		B2	6845+86	-	Natural Gas	12	inch	211		Relocated
229	URS/HMM/Arup Joint Venture	PG&E		B2	6847+13	-	Transmission Line	230	kV	211		Relocated
230	URS/HMM/Arup Joint Venture	PG&E		B2	6851+17	-	Natural Gas	-	inch	211		Relocated
231	URS/HMM/Arup Joint Venture	Sempra Energy Company		B2	6852+83	-	Natural Gas	10	inch	148		Relocated
232	URS/HMM/Arup Joint Venture	PG&E		B2	6854+76	-	Transmission Line	230	kV	212		Relocated
233	URS/HMM/Arup Joint Venture	PG&E		B2	6862+56	-	Transmission Line	115	kV	206		Relocated
234	URS/HMM/Arup Joint Venture	PG&E		B2	6870+36	-	Transmission Line	115	kV	202		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
235	URS/HMM/Arup Joint Venture	Unknown		B2	6876+74 to 6896+09	-	Petroleum	-	inch	2336		Relocated
236	URS/HMM/Arup Joint Venture	PG&E		B2	6878+14	-	Transmission Line	230	kV	202		Relocated
237	URS/HMM/Arup Joint Venture	PG&E		B2	6880+15	Rosedale Hwy	Transmission Line	-	kV	215		Relocated
238	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	6911+80	-	Petroleum	8	inch	176		Relocated
239	URS/HMM/Arup Joint Venture	Unknown		B2	6918+48 to 6921+79	-	Petroleum	-	inch	351		Relocated
240	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	6926+09	Palm Ave	Petroleum	6	inch	197		Relocated
241	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	6932+45	Palm Ave	Petroleum	10	inch	156		Relocated
242	URS/HMM/Arup Joint Venture	PG&E		B2	6945+93	Slikker Dr	Transmission Line	-	kV	90		Relocated
243	URS/HMM/Arup Joint Venture	PG&E		B2	6974+89	-	Transmission Line	230	kV	84		Relocated
244	URS/HMM/Arup Joint Venture	PG&E		B2	6980+39	-	Transmission Line	230	kV	83		Relocated
245	URS/HMM/Arup Joint Venture	PG&E		B2	6985+84	-	Transmission Line	69	kV	83		Relocated
246	URS/HMM/Arup Joint Venture	BP West Coast Products LLC		B2	6988+80	-	Petroleum	10	inch	282		Relocated
247	URS/HMM/Arup Joint Venture	PG&E		B2	6991+25	-	Transmission Line	69	kV	82		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
248	URS/HMM/Arup Joint Venture	PG&E		B2	6996+63	-	Transmission Line	69	kV	82		Relocated
249	URS/HMM/Arup Joint Venture	Unknown		B2	7000+18	-	Natural Gas	-	inch	82		Relocated
250	URS/HMM/Arup Joint Venture	Unknown		B2	7001+39 to 7009.84	-	Natural Gas	-	inch	850		Relocated
251	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	7001+71	Brimhall Rd	Petroleum	10	inch	192		Relocated
252	URS/HMM/Arup Joint Venture	PG&E		B2	7002+00	Brimhall Rd	Transmission Line	115	kV	196		Relocated
253	URS/HMM/Arup Joint Venture	PG&E		B2	7007+33	-	Transmission Line	115	kV	81		Relocated
254	URS/HMM/Arup Joint Venture	Unknown		B2	7012+17 to 7020.34	-	Natural Gas	-	inch	829		Relocated
255	URS/HMM/Arup Joint Venture	Conoca Philips		B2	7017+90	-	Petroleum	-	inch	337		Relocated
256	URS/HMM/Arup Joint Venture	Sempra Energy Company		B2	7021+33	-	Natural Gas	-	inch	241		Relocated
257	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	7022+89	-	Petroleum	4	inch	310		Relocated
258	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	7030+64	-	Petroleum	-	inch	100		Relocated
259	URS/HMM/Arup Joint Venture	Sempra Energy Company		B2	7052+28	-	Natural Gas	8	inch	81		Relocated
260	URS/HMM/Arup Joint Venture	PG&E		B2	7070+08 to 7073+84	-	Transmission Line	69	kV	384		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
261	URS/HMM/Arup Joint Venture	PG&E		B2	7094+25 to 7098+68	-	Transmission Line	115	kV	453		Relocated
262	URS/HMM/Arup Joint Venture	Unknown		B2	7095+45 to 7101+18	-	Transmission Line	-	kV	586		Relocated
263	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	7102+70	-	Petroleum	10	inch	81		Relocated
264	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	7102+70 to 7109+60	-	Petroleum	4	inch	706		Relocated
265	URS/HMM/Arup Joint Venture	Unknown		B2	7102+78 to 7103+49	-	Transmission Line	-	kV	74		Relocated
266	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	7112+15 to 7120+18		Petroleum	4	inch	1298		Relocated
267	URS/HMM/Arup Joint Venture	PG&E		B2	7112+15 to 7125+19	-	Transmission Line	115	kV	1529		Relocated
268	URS/HMM/Arup Joint Venture	PG&E		B2	7112+15 to 7118+59	-	Transmission Line	115	kV	671		Relocated
269	URS/HMM/Arup Joint Venture	PG&E		B2	7117+49 to 7121+51	-	Transmission Line	115	kV	225		Relocated
270	URS/HMM/Arup Joint Venture	PG&E		B2	7121+50 to 7124+34	-	Transmission Line	115	kV	342		Relocated
271	URS/HMM/Arup Joint Venture	PG&E		B2	7125+83 to 7126+72	-	Transmission Line	115	kV	122		Relocated
272	URS/HMM/Arup Joint Venture	Shell Oil Company		B2	7133+44	-	Petroleum	10	inch	80		Relocated
273	URS/HMM/Arup Joint Venture	PG&E		B2	7135+34 to 7142+30	-	Transmission Line	-	kV	699		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
274	URS/HMM/Arup Joint Venture	PG&E		B2	7153+61	-	Transmission Line	-	kV	88		Relocated
275	URS/HMM/Arup Joint Venture	PG&E		B2	7159+40	Oak St	Transmission Line	69	kV	88		Relocated
276	URS/HMM/Arup Joint Venture	PG&E		B2	7162+91	Oak St	Transmission Line	-	kV	102		Relocated
277	URS/HMM/Arup Joint Venture	PG&E		B2	7252+40 to 7263+55	-	Transmission Line	-	kV	1311		Relocated
278	URS/HMM/Arup Joint Venture	Kinder Morgan		B2	7267+60 to 7267+88	-	Petroleum	-	inch	349		Relocated
279	URS/HMM/Arup Joint Venture	PG&E		B2	7269+19	Union Ave	Transmission Line	69	kV	179		Relocated
280	URS/HMM/Arup Joint Venture	PG&E		B2	7278+62	-	Natural Gas	12	inch	179		Relocated
281	URS/HMM/Arup Joint Venture	Sempra Energy Company		B3	6815+12	-	Natural Gas	-	inch	191		Relocated
282	URS/HMM/Arup Joint Venture	Chevron Corp.		B3	6836+09	-	Petroleum	10	inch	131		Relocated
283	URS/HMM/Arup Joint Venture	PG&E		B3	6845+86	-	Natural Gas	12	inch	198		Relocated
284	URS/HMM/Arup Joint Venture	PG&E		B3	6847+13	-	Transmission Line	230	kV	198		Relocated
285	URS/HMM/Arup Joint Venture	PG&E		B3	6851+17	-	Natural Gas	-	inch	198		Relocated
286	URS/HMM/Arup Joint Venture	Sempra Energy Company		B3	6852+83	-	Natural Gas	10	inch	135		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
287	URS/HMM/Arup Joint Venture	PG&E		B3	6854+76	-	Transmission Line	230	kV	199		Relocated
288	URS/HMM/Arup Joint Venture	PG&E		B3	6862+56	-	Transmission Line	115	kV	193		Relocated
289	URS/HMM/Arup Joint Venture	PG&E		B3	6870+36	-	Transmission Line	115	kV	202		Relocated
290	URS/HMM/Arup Joint Venture	Unknown		B3	6876+74 to 6896+09	-	Petroleum	-	inch	2336		Relocated
291	URS/HMM/Arup Joint Venture	PG&E		B3	6878+14	-	Transmission Line	230	kV	202		Relocated
292	URS/HMM/Arup Joint Venture	PG&E		B3	6880+15	Rosedale Hwy	Transmission Line	-	kV	215		Relocated
293	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	6911+80	-	Petroleum	8	inch	166		Relocated
294	URS/HMM/Arup Joint Venture	Unknown		B3	6918+48 to 6921+79	-	Petroleum	-	inch	323		Relocated
295	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	6926+09	Palm Ave	Petroleum	6	inch	197		Relocated
296	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	6932+45	Palm Ave	Petroleum	10	inch	156		Relocated
297	URS/HMM/Arup Joint Venture	PG&E		B3	6945+93	Slikker Dr	Transmission Line	-	kV	90		Relocated
298	URS/HMM/Arup Joint Venture	PG&E		B3	6974+89	-	Transmission Line	230	kV	84		Relocated
299	URS/HMM/Arup Joint Venture	PG&E		B3	6980+39	-	Transmission Line	230	kV	83		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
300	URS/HMM/Arup Joint Venture	PG&E		B3	6985+84	-	Transmission Line	69	kV	83		Relocated
301	URS/HMM/Arup Joint Venture	BP West Coast Products LLC		B3	6988+80	-	Petroleum	10	inch	282		Relocated
302	URS/HMM/Arup Joint Venture	PG&E		B3	6991+25	-	Transmission Line	69	kV	82		Relocated
303	URS/HMM/Arup Joint Venture	PG&E		B3	6996+63	-	Transmission Line	69	kV	82		Relocated
304	URS/HMM/Arup Joint Venture	Unknown		B3	7000+18	-	Natural Gas	-	inch	82		Relocated
305	URS/HMM/Arup Joint Venture	Unknown		B3	7001+39 to 7009.84	-	Natural Gas	-	inch	850		Relocated
306	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	7001+71	Brimhall Rd	Petroleum	10	inch	192		Relocated
307	URS/HMM/Arup Joint Venture	PG&E		B3	7002+00	Brimhall Rd	Transmission Line	115	kV	196		Relocated
308	URS/HMM/Arup Joint Venture	PG&E		B3	7007+33	-	Transmission Line	115	kV	81		Relocated
309	URS/HMM/Arup Joint Venture	Unknown		B3	7012+17 to 7020.34	-	Natural Gas	-	inch	829		Relocated
310	URS/HMM/Arup Joint Venture	Conoca Philips		B3	7017+90	-	Petroleum	-	inch	337		Relocated
311	URS/HMM/Arup Joint Venture	Sempra Energy Company		B3	7021+33	-	Natural Gas	-	inch	241		Relocated
312	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	7022+89	-	Petroleum	4	inch	310		Relocated

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No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
313	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	7030+64	-	Petroleum	-	inch	100		Relocated
314	URS/HMM/Arup Joint Venture	Sempra Energy Company		B3	7052+28	-	Natural Gas	8	inch	81		Relocated
315	URS/HMM/Arup Joint Venture	PG&E		B3	7070+08 to 7073+84	-	Transmission Line	69	kV	384		Relocated
316	URS/HMM/Arup Joint Venture	PG&E		B3	7094+25 to 7098+68	-	Transmission Line	115	kV	453		Relocated
317	URS/HMM/Arup Joint Venture	Unknown		B3	7095+59 to 7101+18	-	Transmission Line	-	kV	571		Relocated
318	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	7102+70	-	Petroleum	10	inch	81		Relocated
319	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	7102+70 to 7109+60	-	Petroleum	4	inch	706		Relocated
320	URS/HMM/Arup Joint Venture	Unknown		B3	7102+78 to 7103+49	-	Transmission Line	-	kV	74		Relocated
321	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	7112+15 to 7120+18		Petroleum	4	inch	1298		Relocated
322	URS/HMM/Arup Joint Venture	PG&E		B3	7112+15 to 7125+19	-	Transmission Line	115	kV	1529		Relocated
323	URS/HMM/Arup Joint Venture	PG&E		B3	7112+15 to 7118+59	-	Transmission Line	115	kV	671		Relocated
324	URS/HMM/Arup Joint Venture	PG&E		B3	7117+49 to 7121+51	-	Transmission Line	115	kV	225		Relocated
325	URS/HMM/Arup Joint Venture	PG&E		B3	7121+50 to 7123+64	-	Transmission Line	115	kV	256		Relocated

F-B High Risk Utility Information Log

No.	Region	Owner	Dwg No.	HST Alignment	Station	Cross Road(s)	Facility Type	Size	Units	Length (feet)	% Cost Allocation	Disposition
326	URS/HMM/Arup Joint Venture	PG&E		B3	7125+83 to 7126+72	-	Transmission Line	115	kV	123		Relocated
327	URS/HMM/Arup Joint Venture	Shell Oil Company		B3	7133+44	-	Petroleum	10	inch	80		Relocated
328	URS/HMM/Arup Joint Venture	PG&E		B3	7135+34 to 7142+30	-	Transmission Line	-	kV	699		Relocated
329	URS/HMM/Arup Joint Venture	PG&E		B3	7153+61	-	Transmission Line	-	kV	88		Relocated
330	URS/HMM/Arup Joint Venture	PG&E		B3	7159+40	Oak St	Transmission Line	69	kV	88		Relocated
331	URS/HMM/Arup Joint Venture	PG&E		B3	7162+91	Oak St	Transmission Line	-	kV	102		Relocated
332	URS/HMM/Arup Joint Venture	PG&E		B3	7260+08 to 7264+11	-	Transmission Line	-	kV	568		Relocated
333	URS/HMM/Arup Joint Venture	Kinder Morgan		B3	7267+94 to 7268+42	-	Petroleum	-	inch	349		Relocated
334	URS/HMM/Arup Joint Venture	PG&E		B3	7269+65	Union Ave	Transmission Line	69	kV	690		Relocated
335	URS/HMM/Arup Joint Venture	Kinder Morgan		B3	7270+92 to 7278+00	-	Petroleum	-	inch	1556		Relocated
336	URS/HMM/Arup Joint Venture	PG&E		B3	7279+25	Dolores St	Natural Gas	12	inch	273		Relocated

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Appendix C

Utility Owner Contact Log

FB - Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
1	URS/HMM/Arup Joint Venture	Alpaugh Irrigation District	09/11/2009	Phone	URS - A. Molina	Called and left message on 09/11/09 with Heather.
2	URS/HMM/Arup Joint Venture	Angiola Water District	09/11/2009	Phone	URS - A. Molina	Called and left message 09/11/09 with Admin. Richard Schafer out until 09/17/09.
3	URS/HMM/Arup Joint Venture	California Water Service Group - Bakersfield	09/11/2009	Phone	URS - A. Molina	Contacted David Le and left message on 09/11/09.
4	URS/HMM/Arup Joint Venture	City of Corcoran	09/11/2009	Phone	URS - A. Molina	Called 09/11/09 @ 3:30pm and spoke with Admin and she mention that Steve Kroecker will be back on Monday 09/14/09.
5	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	09/11/2009	Phone	URS - A. Molina	Contact Peter Lopez on 09/11/09, George Aguilar was assign staff to original request. Peter will locate George Aguilar replacement and he will call me back before 09/18/09.
6	URS/HMM/Arup Joint Venture	Southern California Edison	09/11/2009	Phone	URS - A. Molina	Called Daniel Filla on 09/11/09 and left a message, 559.685.3295
7	URS/HMM/Arup Joint Venture	Alpaugh Irrigation District	09/14/2009	Phone	URS - A. Molina	Heather called back on 09/14/09 and requested an email with request. Emailed Heather on 09/14/9 with request.
8	URS/HMM/Arup Joint Venture	California Water Service Group - Bakersfield	09/14/2009	Phone	URS - A. Molina	Called returned 09/14/09 and requested email with request. Submitted email request on 09/14/09.
9	URS/HMM/Arup Joint Venture	City of Corcoran	09/14/2009	Phone	URS - A. Molina	Called 09/14/09, spoke with Steve and instructed to contact Charles Sanford with Quad Knopf. They are the City Engineer. 559.449.2400
10	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	09/14/2009	Phone	URS - A. Molina	Jerry Moore called back on 09/14/09, service planning supervisor.
11	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	09/14/2009	Phone	URS - A. Molina	I called back on 09/14/09 and confirmed request
12	URS/HMM/Arup Joint Venture	Southern California Edison	09/14/2009	Phone	URS - A. Molina	Daniel called back on 09/14/09 and requested email with request.
13	URS/HMM/Arup Joint Venture	Southern California Edison	09/14/2009	Email	URS - A. Molina	Sent email to Daniel on 09/14/09 with request.
14	URS/HMM/Arup Joint Venture	AT&T	09/15/2009	Phone	URS - A. Molina	Spoke with Frank Robles on 09/15/09 and made request. Emailed requested, emailed on 09/15/09. 559.739.6479.
15	URS/HMM/Arup Joint Venture	Atwell Island Irrigation District	09/15/2009	Phone	URS - A. Molina	Called Kevin Couch and left message on 09/15/09 at his cell phone.
16	URS/HMM/Arup Joint Venture	Charter Communication Cable	09/15/2009	Phone	URS - A. Molina	Called Johnny Sanchez on 09/15/09 and requested information. Johnny ask that I send him an email with request. Emailed Johnny on 09/15/09.
17	URS/HMM/Arup Joint Venture	City of Corcoran	09/15/2009	Phone	URS - A. Molina	Contact Chuck and David Duda, sent info on 09/15/09 GIS files.
18	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	09/15/2009	Phone	URS - A. Molina	Called and left message on 09/15/09 to Phil Desetoff.
19	URS/HMM/Arup Joint Venture	Delano-Earlimart Irrigation District	09/15/2009	Phone	URS - A. Molina	Called and spoke with Dale Brogan on 09/15/09. Dale mention they have a NTS GIS model, and hard copies. We can pick them up anytime. 661.725.2526
20	URS/HMM/Arup Joint Venture	Kings County Water District	09/15/2009	Phone	URS - A. Molina	Called and left message for Don Mills with Rene on 09/15/09. 559.584.6412
21	URS/HMM/Arup Joint Venture	Lakeside Irrigation District	09/15/2009	Phone	URS - A. Molina	Called on 09/15/09 and was referred to engineer, R.L. Schafer. 559.734.1348
22	URS/HMM/Arup Joint Venture	North Kern Water Storage District	09/15/2009	Phone	URS - A. Molina	Called on 09/15/09 and left message for Jerry Ezell. Jerry is out until 09/21/09.
23	URS/HMM/Arup Joint Venture	North of River Sanitary District	09/15/2009	Phone	URS - A. Molina	Called on 09/15/09 and left message with Nancy for John Lamar. 661.399.6411
24	URS/HMM/Arup Joint Venture	North of River Sanitary District	09/15/2009	Phone	URS - A. Molina	John called back on 09/15/09 and requested email with request. Sent email with request on 09/15/09.
25	URS/HMM/Arup Joint Venture	Selma Kingsburg Fowler (SFK)	09/15/2009	Phone	URS - A. Molina	Contacted Veronica Cazarez on 09/15/09 with request. Veronica requested email with request. Emailed request on 09/15/09. 559.897.6500 Ext. 230
26	URS/HMM/Arup Joint Venture	Verizon	09/15/2009	Phone	URS - A. Molina	Called and spoke with Travis Earhart on 09/15/09. Email requested, email sent on 09/15/09. 559.637.0665.
27	URS/HMM/Arup Joint Venture	Comcast Cable	09/16/2009	Phone	URS - A. Molina	Called Jim Gaskin on 09/16/09 and made request. Jim provided contact of Frank Castro. Emailed Frank on 09/16/09 with request. Called Frank on 09/16/09, he mention it will take 7-10 work days due to complexity of project. 559.455.4227.
28	URS/HMM/Arup Joint Venture	Lakeside Irrigation District	09/17/2009	Phone	URS - A. Molina	Called Richard Schafer on 09/17/09. Richard will send info request on 09/23/09.
29	URS/HMM/Arup Joint Venture	California Water Service Group - Bakersfield	09/18/2009	Phone	URS - A. Molina	Email respond on 09/18/09 with contact info. of staff working on request. Pete Marshall, 408.367.8301.
30	URS/HMM/Arup Joint Venture	Comcast Cable	09/18/2009	Phone	URS - A. Molina	Frank called back on 09/18/09. A-C Square Inc. will be collecting the information for Comcast Cable per my request. They are out of Clovis Ca.

FB - Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
31	URS/HMM/Arup Joint Venture	North Kern Water Storage District	09/21/2009	Phone	URS - A. Molina	Called on 09/21/09 and spoke with Jerry. Jerry ask me to send email with request. Send email on 09/22/09. Jerry ask that I contact Ralph Sanchez with Semitropic water. 661.758.2113
32	URS/HMM/Arup Joint Venture	Semitropic Water Storage District	09/21/2009	Phone	URS - A. Molina	Called Ralph Sanchez on 09/21/09 with request. 661.758.5113
33	URS/HMM/Arup Joint Venture	Verizon	09/21/2009	Phone	URS - A. Molina	Email back on 09/21/09 with fee/see email
34	URS/HMM/Arup Joint Venture	Alpaugh Irrigation District	09/22/2009	Phone	URS - L. Howard	Larry called on 09/22/09 and Kevin said he will send map on 09/23/09.
35	URS/HMM/Arup Joint Venture	Atwell Island Irrigation District	09/22/2009	Phone	URS - L. Howard	Larry Howard called on 09/22/09 and Kevin said he will mail map out on 09/23/09.
36	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	09/22/2009	Phone	URS - L. Howard	Larry Howard called on 09/22/09 and spoke with Phil.
37	URS/HMM/Arup Joint Venture	Kings County Water District	09/22/2009	Phone	URS - L. Howard	Larry Howard called on 09/22/09 and spoke with Don. Don to fax map on 09/23/09. Received map on 09/23/09. Map is poor quality.
38	URS/HMM/Arup Joint Venture	North Kern Water Storage District	09/22/2009	Phone	URS - A. Molina	Contacted Ralph Sanchez on 09/22/09 and requested info.
39		Semitropic Water Storage District	09/22/2009	Phone	URS - A. Molina	Leslie Pajuelo to provide map, requested email with request. Emailed request on 09/22/09.
40	URS/HMM/Arup Joint Venture	Angiola Water District	09/23/2009	Phone	URS - A. Molina	Called on 09/23/09 and Spoke with Richard, provided contact name of Monte Mitchell, 559.992.8980
41	URS/HMM/Arup Joint Venture	Lakeside Irrigation District	09/23/2009	Email	URS - A. Molina	Received map from Michelle Parker on 09/23/09.
42	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	09/25/2009	Email	URS - L. Howard	Lupe Chavez emailed map on 09/25/09.
43	URS/HMM/Arup Joint Venture	Alpaugh Irrigation District	09/27/2009	Mail	URS - A. Molina	Received documents on 10/27/09.
44	URS/HMM/Arup Joint Venture	Kings County Water District	09/28/2009	Phone	URS - L. Howard	Larry Howard contacted Don again on 09/28/09 and requested better quality map.
45	URS/HMM/Arup Joint Venture	Kings County Water District	09/28/2009	Email	URS - L. Howard	Received map via mail
46	URS/HMM/Arup Joint Venture	Southern California Gas Company	09/28/2009	Phone	URS - A. Molina	Called JoAnn Simpson on 09/28/09 and left message requesting work order fee. 213.244.5888
47	URS/HMM/Arup Joint Venture	Verizon	09/28/2009	Phone	URS - A. Molina	Called 09/28/09 requesting work order fee and left message.
48	URS/HMM/Arup Joint Venture	Verizon	09/29/2009	Phone	URS - A. Molina	Travis returned my call and left me a message 09/29/09.
49	URS/HMM/Arup Joint Venture	Verizon	09/29/2009	Phone	URS - A. Molina	Called Travis on 10/01/09 and requested invoice for request.
50	URS/HMM/Arup Joint Venture	Southern California Gas Company	09/30/2009	Phone	URS - A. Molina	JoAnn called back on 09/30/09 and left message. Martin had cancel work order. Need to start new one. Canceled on 05/15/09.
51	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	10/01/2009	Phone	URS - A. Molina	I called on 10/01/09 and left message.
52	URS/HMM/Arup Joint Venture	Southern California Edison	10/01/2009	Phone	URS - A. Molina	I called on 10/01/09 and left message.
53	URS/HMM/Arup Joint Venture	Angiola Water District	10/02/2009	Phone	URS - A. Molina	Called and spoke with Monte on 10/02/09. Monte will send maps via email.
54	URS/HMM/Arup Joint Venture	Angiola Water District	10/02/2009	Email	URS - A. Molina	Received map via email on 10/02/09 from Monte Mitchell.
55	URS/HMM/Arup Joint Venture	AT&T	10/02/2009	Phone	URS - A. Molina	Called left message 10/02/09 for Frank.
56	URS/HMM/Arup Joint Venture	California Water Service Group - Bakersfield	10/02/2009	Phone	URS - A. Molina	Called and spoke with Pete on 10/02/09.
57	URS/HMM/Arup Joint Venture	Charter Communication Cable	10/02/2009	Phone	URS - A. Molina	Called Johnny on 10/02/09, resend request. First request attachment did not work.
58	URS/HMM/Arup Joint Venture	Comcast Cable	10/02/2009	Phone	URS - A. Molina	Called Frank Castro on 10/02/09 and left message.
59	URS/HMM/Arup Joint Venture	Delano-Earlimart Irrigation District	10/02/2009	Phone	URS - A. Molina	Called and left message 10/02/09 requesting NTS GIS model and hard copy with Dale.
60	URS/HMM/Arup Joint Venture	North Kern Water Storage District	10/02/2009	Phone	URS - A. Molina	Called on 10/02/09 and left message for Ralph.
61	URS/HMM/Arup Joint Venture	North of River Sanitary District	10/02/2009	Phone	URS - A. Molina	Called John on 10/02/09, spoke with Nancy. John out until 10/07/09.
62	URS/HMM/Arup Joint Venture	Selma Kingsburg Fowler (SFK)	10/02/2009	Phone	URS - A. Molina	Called Veronica and left message 10/02/09.
63	URS/HMM/Arup Joint Venture	Semitropic Water Storage District	10/02/2009	Phone	URS - A. Molina	Called and left message for Ralph on 10/02/09.
64	URS/HMM/Arup Joint Venture	Southern California Edison	10/02/2009	Phone	URS - A. Molina	Received call from Daniel on 10/02/09, provided Bill DeLain (Public Relations) cell 559.331.0040 as another contact. He has contacted individual mapping to give info. Have not heard back. On vacation for next two weeks.

04/02/2014 - RFP No.: HSR13-57

FB - Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
65	URS/HMM/Arup Joint Venture	Southern California Gas Company	10/02/2009	Phone	URS - A. Molina	Called on 10/02/09 and left message for JoAnn, on how to initiate the process for new request.
66	URS/HMM/Arup Joint Venture	AT&T	10/05/2009	Phone	URS - A. Molina	Frank responded with email on 10/05/09. See email.
67	URS/HMM/Arup Joint Venture	California Water Service Group - Bakersfield	10/05/2009	Email	URS - A. Molina	Received email on 10/05/09.
68	URS/HMM/Arup Joint Venture	Comcast Cable	10/05/2009	Phone	URS - A. Molina	Frank Castro called back on 10/05/09 information will be ready in 5-7 days from today.
69	URS/HMM/Arup Joint Venture	Corcoran Irrigation District	10/05/2009	Phone	URS - A. Molina	Called Carlo Willcox on 10/02/09, mal map on 10/05/09. 559.992.5165
70	URS/HMM/Arup Joint Venture	California Water Service Group - Bakersfield	10/06/2009	Phone	URS - A. Molina	No facilities per Pete 10/06/09.
71	URS/HMM/Arup Joint Venture	California Water Service Group - Bakersfield	10/06/2009	Phone	URS - A. Molina	David Le, 408.367.8337
72	URS/HMM/Arup Joint Venture	Selma Kingsburg Fowler (SFK)	10/06/2009	Phone	URS - A. Molina	Veronica called to make me aware that she will be sending information over today via email 10/06/09.
73	URS/HMM/Arup Joint Venture	AT&T	10/07/2009	Phone	URS - A. Molina	Called Frank on 10/07/09, he says the area is too big, will not provide info. He will let his supervisor know about us buying maps from them.
74	URS/HMM/Arup Joint Venture	AT&T	10/09/2009	Email	URS - A. Molina	Sent request to Kiera Nolan on 10/09/09 via mail. Contact info. 626.356.6800
75	URS/HMM/Arup Joint Venture	Southern California Gas Company	10/09/2009	Phone	URS - A. Molina	JoAnn called on 10/09/09 and explains what to submit for new request. Emailed her request. jsimpson@sempreutilities.com
76	URS/HMM/Arup Joint Venture	North Kern Water Storage District	10/10/2009	Phone	URS - A. Molina	Requested data source files 11/10/09.
77	URS/HMM/Arup Joint Venture	Comcast Cable	10/14/2009	Phone	URS - A. Molina	Frank called on 10/14/09 and said he will send info. Via email today.
78	URS/HMM/Arup Joint Venture	AT&T	10/15/2009	Phone	URS - A. Molina	Called Mr. Nolan on 10/15/09 and spoke with Marie Ross. They had just received the request. Mr. Nolan to review request, I will follow up week of 10/19-23/09.
79	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	10/15/2009	Phone	URS - A. Molina	Called Jerry on 10/15/09 and left message.
80	URS/HMM/Arup Joint Venture	Verizon	10/15/2009	Phone	URS - A. Molina	Called Travis on 10/15/09 and inquired on invoice for request of utilities. Email out today, follow by hardcopy in mail to Fresno Office.
81	URS/HMM/Arup Joint Venture	Verizon	10/15/2009	Email	URS - A. Molina	Received email 10/15/09 with non-disclosure agreement.
82	URS/HMM/Arup Joint Venture	AT&T	10/19/2009	Phone	URS - A. Molina	Director for Central Valley – Office in Salinas. Birt Johnson called back on 10/19/09. 831.424.0233.
83	URS/HMM/Arup Joint Venture	Southern California Edison	10/19/2009	Phone	URS - A. Molina	Daniel called back on 10/19/09 and left message regarding contact on new HST lead.
84	URS/HMM/Arup Joint Venture	Charter Communication Cable	10/20/2009	Phone	URS - A. Molina	Emailed 10/20/09 asking for status.
85	URS/HMM/Arup Joint Venture	Corcoran Irrigation District	10/20/2009	Phone	URS - A. Molina	Called 10/20/09 and left message with secretary.
86	URS/HMM/Arup Joint Venture	Delano-Earlimart Irrigation District	10/20/2009	Phone	URS - A. Molina	Called Dale on 10/20/09 and provided mailing address to mail their map.
87	URS/HMM/Arup Joint Venture	North Kern Water Storage District	10/20/2009	Phone	URS - A. Molina	Dana Mudd, 661.393.2696 called and left message on 10/20/09.
88	URS/HMM/Arup Joint Venture	North of River Sanitary District	10/20/2009	Phone	URS - A. Molina	Called and spoke with John Lamar 10/20/09 information available in one to two weeks follow up then.
89	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	10/20/2009	Phone	URS - A. Molina	Called on 10/20/09 and spoke with Jerry
90	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	10/20/2009	Phone	URS - A. Molina	Called Jerry on 10/20/09 and said Fresno GIS people will get Info/Data for us.
91		Semitropic Water Storage District	10/20/2009	Phone	URS - A. Molina	Received info 10/20/09.
92	URS/HMM/Arup Joint Venture	Semitropic Water Storage District	10/20/2009	Phone	URS - A. Molina	Called and spoke with Ralph on 10/20/09 emailed him, he will send info.
93	URS/HMM/Arup Joint Venture	Southern California Edison	10/20/2009	Phone	URS - A. Molina	Called Daniel on 10/20/09 and left message.
94	URS/HMM/Arup Joint Venture	Southern California Gas Company	10/20/2009	Email	URS - A. Molina	Emailed JoAnn 10/20/09 asking for a status.
95	URS/HMM/Arup Joint Venture	Southern California Gas Company	10/20/2009	Phone	URS - A. Molina	Called JoAnn, request to be approved by end of week.
96	URS/HMM/Arup Joint Venture	Verizon	10/20/2009	Email	URS - A. Molina	Emailed back non-disclosure agreement 10/20/09.
97	URS/HMM/Arup Joint Venture	Corcoran Irrigation District	10/21/2009	Phone	URS - A. Molina	Carlo called back 10/21/09. Data will be mailed on 10/22/09 via US postal service.
98	URS/HMM/Arup Joint Venture	Southern California Edison	10/21/2009	Phone	URS - A. Molina	Daniel called 10/21/09, request has been forwarded to Paul J. Demartini Vice-President advance technology. His team will call me in a couple of days.

FB - Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
99	URS/HMM/Arup Joint Venture	Atwell Island Irrigation District	10/23/2009	Mail	URS - L. Howard	Received docs on 10/23/09.
100	URS/HMM/Arup Joint Venture	Delano-Earlimart Irrigation District	10/27/2009	Mail	URS - A. Molina	Received map 10/27/09.
101	URS/HMM/Arup Joint Venture	Southern California Edison	10/27/2009	Phone	URS - A. Molina	Called on 10/27/09 and left message, have not heard from advance technology team.
102		Corcoran Irrigation District	10/29/2009	Phone	URS - A. Molina	Received 10/29/09 hard copy of map. Had CVR make PDF 11/02/09.
103	URS/HMM/Arup Joint Venture	Southern California Edison	11/04/2009	Phone	URS - A. Molina	Daniel called 11/04/09 and said he was going to forward email request to Michael Montoya, Rebecca Firman and Jana Monroe (a team assembled to deal with HST).
104	URS/HMM/Arup Joint Venture	Southern California Gas Company	11/04/2009	Phone	URS - A. Molina	Called JoAnn 11/04/09 and left message.
105	URS/HMM/Arup Joint Venture	Charter Communication Cable	11/05/2009	In-Person	URS - A. Molina	Met with Johnny Sanchez 11/05/09, only towns with charter services are Earlimart, Pixley and Tipton.
106		North Kern Water Storage District	11/05/2009	Phone	URS - A. Molina	Called 11/05/09 and left message.
107	URS/HMM/Arup Joint Venture	North of River Sanitary District	11/05/2009	Phone	URS - A. Molina	Called and spoke with John 11/05/09, still working on data, call back before thanksgiving.
108	URS/HMM/Arup Joint Venture	Southern California Gas Company	11/05/2009	Mail	URS - A. Molina	Received invoice for maps 11/05/09, spoke with Katie Eastham on how to process invoice. Sally Perdue process invoice request in Basware.
109	URS/HMM/Arup Joint Venture	North Kern Water Storage District	11/09/2009	Phone	URS - A. Molina	Dana called back and requested email, emailed sent also on 11/09/09 with request.
110	URS/HMM/Arup Joint Venture	North Kern Water Storage District	11/10/2009	Email	URS - A. Molina	Received email from Dana with Data/Map on 11/10/09.
111	URS/HMM/Arup Joint Venture	Southern California Gas Company	11/10/2009	Phone	URS - A. Molina	Called JoAnn 11/10/09 and left message.
112	URS/HMM/Arup Joint Venture	North Kern Water Storage District	11/17/2009	Phone	URS - A. Molina	Received data source files on 11/17/09 from NKWSD.
113	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	11/18/2009	Email	URS - A. Molina	Instructed not to make any contact with PG&E, PMT group will coordinate.
114	URS/HMM/Arup Joint Venture	Southern California Edison	11/18/2009	Email	URS - A. Molina	Instructed not to make contact any more with SCE, PMT team will coordinate.
115	URS/HMM/Arup Joint Venture	North of River Sanitary District	12/02/2009	Email	URS - A. Molina	Received data 12/02/09 via email, forward to SF.
116	URS/HMM/Arup Joint Venture	Southern California Gas Company	01/04/2010	Phone	URS - A. Molina	New Number 213.244.3727
117	URS/HMM/Arup Joint Venture	Southern California Gas Company	01/04/2010	Phone	URS - A. Molina	Kirk Skinner, 559.739.2311
118	URS/HMM/Arup Joint Venture	Southern California Gas Company	01/04/2010	Mail	URS - A. Molina	Received maps from So. Cal. Gas on 01/04/10.
119	URS/HMM/Arup Joint Venture	Southern California Gas Company	01/05/2010	Email	URS - A. Molina	Forward maps to Kirsten Lawrence (SF) on 01/05/10.
120	URS/HMM/Arup Joint Venture	AT&T	07/11/2011	Letter, Phone	URS	Sent 'A' Letter
121	URS/HMM/Arup Joint Venture	City of Fresno	07/11/2011	Letter	URS	Sent 'A' Letter
122	URS/HMM/Arup Joint Venture	Fresno County	07/11/2011	Email	URS	Responded via email stating they do not have any conflicting utilities within the current project limits.
123	URS/HMM/Arup Joint Venture	Fresno County	07/11/2011	Letter	URS	Sent 'A' Letter
124	URS/HMM/Arup Joint Venture	Fresno Irrigation District	07/11/2011	Letter	URS	Sent 'A' Letter
125	URS/HMM/Arup Joint Venture	Fresno Metropolitan Flood Control District	07/11/2011	Letter	URS	Sent 'A' Letter
126	URS/HMM/Arup Joint Venture	Kinder Morgan	07/11/2011	Letter	URS	Sent 'A' Letter
127	URS/HMM/Arup Joint Venture	Southern California Edison	07/11/2011	Letter	URS	Sent 'A' Letter
128	URS/HMM/Arup Joint Venture	Verizon - Telecom	07/11/2011	Letter	URS	Sent 'A' Letter
129	URS/HMM/Arup Joint Venture	Comcast Cable	07/22/2011	Letter, Phone	URS	Sent 'A' Letter
130	URS/HMM/Arup Joint Venture	Southern California Gas Company	07/22/2011	Letter	URS	Sent 'A' Letter
131	URS/HMM/Arup Joint Venture	Fresno Metropolitan Flood Control District	07/29/2011	Mail	URS	Received basin plans for RR drainage area and marked up utility plan sheets.
132	URS/HMM/Arup Joint Venture	AT&T	08/02/2011	Letter, Phone	URS	Sent 'A' Letter
133	URS/HMM/Arup Joint Venture	City of Hanford	08/02/2011	Letter	URS	Sent 'A' Letter
134	URS/HMM/Arup Joint Venture	Comcast Cable	08/02/2011	Letter, Phone	URS	Sent 'A' Letter

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No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
135	URS/HMM/Arup Joint Venture	Fresno County	08/02/2011	Letter	URS	Sent 'A' Letter
136	URS/HMM/Arup Joint Venture	Fresno Irrigation District	08/02/2011	Letter	URS	Sent 'A' Letter
137	URS/HMM/Arup Joint Venture	Kaweah-Delta Water Conservation District	08/02/2011	Letter	URS	Sent 'A' Letter
138	URS/HMM/Arup Joint Venture	Kinder Morgan	08/02/2011	Letter	URS	Sent 'A' Letter
139	URS/HMM/Arup Joint Venture	King County	08/02/2011	Letter	URS	Sent 'A' Letter
140	URS/HMM/Arup Joint Venture	Kings County Water District	08/02/2011	Letter	URS	Sent 'A' Letter
141	URS/HMM/Arup Joint Venture	Lakeside Irrigation District	08/02/2011	Letter	URS	Sent 'A' Letter
142	URS/HMM/Arup Joint Venture	Liberty Water District	08/02/2011	Letter	URS	Sent 'A' Letter
143	URS/HMM/Arup Joint Venture	Southern California Edison	08/02/2011	Letter	URS	Sent 'A' Letter
144	URS/HMM/Arup Joint Venture	Southern California Gas Company	08/02/2011	Letter	URS	Sent 'A' Letter
145	URS/HMM/Arup Joint Venture	Verizon - Telecom	08/02/2011	Letter	URS	Sent 'A' Letter
146	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	08/04/2011	Letter	URS	Sent 'A' Letter
147	URS/HMM/Arup Joint Venture	Corcoran Irrigation District	08/04/2011	Letter	URS	Sent 'A' Letter
148	URS/HMM/Arup Joint Venture	Kings River Conservation District	08/09/2011	Letter	URS	Sent 'A' Letter
149	URS/HMM/Arup Joint Venture	Lakeside Irrigation District	08/09/2011	Email	URS	Received the LIWD Distribution Facilities Map
150	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	08/12/2011	Letter	URS	Sent 'A' Letter
151	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	08/16/2011	Mail	URS	Received GIS DATA and a pdf containing 9 exhibits with CID and Farmer owned lateral facilities.
152	URS/HMM/Arup Joint Venture	Kings River Conservation District	08/16/2011	Letter	URS	Received a letter stating no impacts to their utilities; however, the District maintains three of the six levees on the Kings River system that are affected by the proposed r/w. An encroachment permit is required. See letter for additional information
153	URS/HMM/Arup Joint Venture	City of Hanford	08/17/2011	Mail	URS	Received information on proposed 6" water line to Kit Carson School
154	URS/HMM/Arup Joint Venture	J. G. Boswell Company	08/22/2011	Letter	URS	Sent 'A' Letter
155	URS/HMM/Arup Joint Venture	Southern California Edison	08/22/2011	Mail	URS	Received markup to utility plan sheets
156	URS/HMM/Arup Joint Venture	Comcast Cable	09/01/2011	Mail	URS	Received marked up Package #1 utility plan sheets
157	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	09/12/2011	Email	URS	Received TIFF files of plat for gas and electric lines
158	URS/HMM/Arup Joint Venture	Fresno Irrigation District	09/13/2011	Email	URS	Received 2 pdfs. First Pdf contained a table with FID Facility info and 3 maps of impacted FID facilities. The second pdf is a markup of the utility plan sheets.
159	URS/HMM/Arup Joint Venture	City of Fresno	09/27/2011	Mail	URS	Received markup to utility plan sheets
160	URS/HMM/Arup Joint Venture	Kinder Morgan	10/13/2011	Email	URS	Received KMZ file
161	URS/HMM/Arup Joint Venture	Verizon - Telecom	10/25/2011	Mail	URS	Received 30 facility maps.
162	URS/HMM/Arup Joint Venture	Verizon - Telecom	10/31/2011	Letter	URS	Received overview map and letter detail cost of \$480 for this request
163	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	12/20/2011	Letter	URS	Sent 'A' Letter
164	URS/HMM/Arup Joint Venture	J. G. Boswell Company	12/20/2011	Letter	URS	Sent 'A' Letter
165	URS/HMM/Arup Joint Venture	Kinder Morgan	12/20/2011	Letter	URS	Sent 'A' Letter
166	URS/HMM/Arup Joint Venture	King County	12/20/2011	Letter	URS	Sent 'A' Letter
167	URS/HMM/Arup Joint Venture	Kings County Water District	12/20/2011	Letter	URS	Sent 'A' Letter
168	URS/HMM/Arup Joint Venture	Kings River Conservation District	12/20/2011	Letter	URS	Sent 'A' Letter
169	URS/HMM/Arup Joint Venture	Laguna Irrigation District	12/20/2011	Letter	URS	Sent 'A' Letter
170	URS/HMM/Arup Joint Venture	Lakeside Irrigation District	12/20/2011	Letter	URS	Sent 'A' Letter

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No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
171	URS/HMM/Arup Joint Venture	Southern California Edison	12/20/2011	Letter	URS	Sent 'A' Letter
172	URS/HMM/Arup Joint Venture	Southern California Gas Company	12/20/2011	Letter	URS	Sent 'A' Letter
173	URS/HMM/Arup Joint Venture	Verizon - Telecom	12/20/2011	Letter	URS	Sent 'A' Letter
174	URS/HMM/Arup Joint Venture	AT&T	12/21/2011	Letter	URS	Sent 'A' Letter
175	URS/HMM/Arup Joint Venture	City of Hanford	12/21/2011	Letter	URS	Sent 'A' Letter
176	URS/HMM/Arup Joint Venture	Comcast Cable	12/21/2011	Letter	URS	Sent 'A' Letter
177	URS/HMM/Arup Joint Venture	Corcoran Irrigation District	12/21/2011	Letter	URS	Sent 'A' Letter
178	URS/HMM/Arup Joint Venture	Fresno County	12/21/2011	Letter	URS	Sent 'A' Letter
179	URS/HMM/Arup Joint Venture	Kaweah-Delta Water Conservation District	12/21/2011	Letter	URS	Sent 'A' Letter
180	URS/HMM/Arup Joint Venture	Liberty Water District	12/21/2011	Letter	URS	Sent 'A' Letter
181	URS/HMM/Arup Joint Venture	Pacific Gas & Electric	12/21/2011	Letter	URS	Sent 'A' Letter
182	URS/HMM/Arup Joint Venture	Science Applications International Corp (SAIC)	12/21/2011	Letter	URS	Sent 'A' Letter
183	URS/HMM/Arup Joint Venture	Comcast Cable	12/27/2011	Mail	URS	Received marked up utility sheets.
184	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	12/28/2011	Email	URS	Received pptx file via email
185	URS/HMM/Arup Joint Venture	City of Hanford	01/10/2012	Mail	URS	Received water master plan and marked up utility exhibits.
186	URS/HMM/Arup Joint Venture	Southern California Gas Company	01/10/2012	Email	URS	Have an invoice from 2009 for maps in the amount of \$269.01
187	URS/HMM/Arup Joint Venture	Laguna Irrigation District	01/13/2012	Letter	URS	Received pdfs of facilities via email
188	URS/HMM/Arup Joint Venture	Science Applications International Corp (SAIC)	01/13/2012	Email	URS	Received PDF via email
189	URS/HMM/Arup Joint Venture	Alpaugh Irrigation District	10/23/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
190	URS/HMM/Arup Joint Venture	Alta Irrigation District	10/23/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
191	URS/HMM/Arup Joint Venture	Angiola Water District	10/23/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
192	URS/HMM/Arup Joint Venture	County Of Kings	10/23/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
193	URS/HMM/Arup Joint Venture	Fresno Metropolitan Flood Control District	10/23/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
194	URS/HMM/Arup Joint Venture	AT&T	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
195	URS/HMM/Arup Joint Venture	Atwell Island Irrigation District	10/24/2013	Phone	HMM - T. Ramil	Spoke to Jack Mitchell: Requested for street address to send 'A' Letter [3105 Avenue 42, Alpaugh, CA 93201]. Informed Jack that the 'A' Letter will be mailed out today overnight.
196	URS/HMM/Arup Joint Venture	Atwell Island Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
197	URS/HMM/Arup Joint Venture	Chevron	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
198	URS/HMM/Arup Joint Venture	City of Corcoran	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
199	URS/HMM/Arup Joint Venture	City of Delano	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
200	URS/HMM/Arup Joint Venture	City of Fresno	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
201	URS/HMM/Arup Joint Venture	City of Hanford	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
202	URS/HMM/Arup Joint Venture	City of Shafter	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
203	URS/HMM/Arup Joint Venture	City of Wasco	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
204	URS/HMM/Arup Joint Venture	Comcast Cable	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
205	URS/HMM/Arup Joint Venture	Consolidated Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
206	URS/HMM/Arup Joint Venture	Corcoran Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
207	URS/HMM/Arup Joint Venture	County of Fresno	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
208	URS/HMM/Arup Joint Venture	County of Kern	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits

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No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
209	URS/HMM/Arup Joint Venture	County of Tulare	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
210	URS/HMM/Arup Joint Venture	Delano-Earlimart Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
211	URS/HMM/Arup Joint Venture	Fresno Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
212	URS/HMM/Arup Joint Venture	J. G. Boswell Company	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
213	URS/HMM/Arup Joint Venture	Kaweah-Delta Water Conservation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
214	URS/HMM/Arup Joint Venture	Kinder Morgan	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
215	URS/HMM/Arup Joint Venture	Kings County Water District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
216	URS/HMM/Arup Joint Venture	Kings River Conservation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
217	URS/HMM/Arup Joint Venture	Laguna Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
218	URS/HMM/Arup Joint Venture	Lakeside Irrigation Water District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
219	URS/HMM/Arup Joint Venture	Liberty Water District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
220	URS/HMM/Arup Joint Venture	Lower Tule River Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
221	URS/HMM/Arup Joint Venture	North Kern Water Storage District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
222	URS/HMM/Arup Joint Venture	North of River Sanitary District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
223	URS/HMM/Arup Joint Venture	Pacific Gas and Electric	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
224	URS/HMM/Arup Joint Venture	Pixley Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
225	URS/HMM/Arup Joint Venture	Science Applications International Corporation (SAIC)	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
226	URS/HMM/Arup Joint Venture	Semitropic Water Storage District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
227	URS/HMM/Arup Joint Venture	Shafter-Wasco Irrigation District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
228	URS/HMM/Arup Joint Venture	Southern California Edison	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
229	URS/HMM/Arup Joint Venture	Southern California Gas Company	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
230	URS/HMM/Arup Joint Venture	Southern San Joaquin Municipal Utility District	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
231	URS/HMM/Arup Joint Venture	Verizon	10/24/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
232	URS/HMM/Arup Joint Venture	California Water Service Group, Selma District	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
233	URS/HMM/Arup Joint Venture	California Water Service Group, Visalia District	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
234	URS/HMM/Arup Joint Venture	Cawelo Water District	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
235	URS/HMM/Arup Joint Venture	Charter Communication Cable	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
236	URS/HMM/Arup Joint Venture	City of McFarland	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
237	URS/HMM/Arup Joint Venture	City of Selma	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
238	URS/HMM/Arup Joint Venture	City of Tulare	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
239	URS/HMM/Arup Joint Venture	City of Visalia	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
240	URS/HMM/Arup Joint Venture	San Luis & Delta-Mendota Water Authority	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
241	URS/HMM/Arup Joint Venture	Selma Kingsburg Fowler (SFK)	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
242	URS/HMM/Arup Joint Venture	Tulare Irrigation District	10/25/2013	Letter	HMM - T. Grau	Sent 'A' Letter and Exhibits
243	URS/HMM/Arup Joint Venture	City of Selma	10/28/2013	Phone	HMM - T. Grau	Joey Dagget left a message (2013-10-28 10:28am): SR 41 and Mailing Avenue is outside of the sphere of influence. No Utilities
244	URS/HMM/Arup Joint Venture	County of Kern - Planning & Community Development	10/28/2013	Email	URS - K. Gordon	Received email from Allison Molina in regards to the contact information is out of date. Old contact Ted James no longer works for Kern County. <i>The correct information should be Lorelei Oviatt as Director.</i>

FB - Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
245	URS/HMM/Arup Joint Venture	Pacific Gas and Electric	10/28/2013	Email	URS - K. Gordon	Received email from Elizabeth Proctor in regards to the contact information. The PG&E's external HSR contact person is Dale Overbay (DWO4@pge.com).
246	URS/HMM/Arup Joint Venture	Laguna Irrigation District	10/29/2013	Phone / Email	URS - K. Gordon	Spoke to Scott Sills (General Manager): We are unable to proceed with any further review of High Speed Rail documents (Utility Letter "A") until the reimbursement agreements for Laguna Irrigation District, Murphy Slough Association and Liberty Canal Company are executed. A confirming email was also sent.
247	URS/HMM/Arup Joint Venture	Liberty Canal Company	10/29/2013	Phone / Email	URS - K. Gordon	Spoke to Scott Sills (General Manager): We are unable to proceed with any further review of High Speed Rail documents (Utility Letter "A") until the reimbursement agreements for Laguna Irrigation District, Murphy Slough Association and Liberty Canal Company are executed. A confirming email was also sent.
248	URS/HMM/Arup Joint Venture	Murphy Slough Association	10/29/2013	Phone / Email	URS - K. Gordon	Spoke to Scott Sills (General Manager): We are unable to proceed with any further review of High Speed Rail documents (Utility Letter "A") until the reimbursement agreements for Laguna Irrigation District, Murphy Slough Association and Liberty Canal Company are executed. A confirming email was also sent.
249	URS/HMM/Arup Joint Venture	Southern California Edison	10/29/2013	Email	URS - K. Gordon	Received email from David S. Loftin in regards to the contact information. Dave mentioned that this type of request would go to our facilities mapping group. The contact information for Edison facilities mapping is: Kim Gurule [714-796-9932] or Dawn Boucher [714-796-9950]. Jason Arellano [Jason.Arellano@sce.com] may have some input on how to obtain easement information for the rail project.
250	URS/HMM/Arup Joint Venture	Southern California Edison	10/29/2013	Email	URS - K. Gordon	Received email from David S. Loftin in regards to the contact information. Please "do not" contact the group I had directed you to. It appears they have done a part of this work already, and there will be another group involved to help assist with these requests. I will need some time to find that information, please contact me in two weeks, and I should have some information for you.
251	URS/HMM/Arup Joint Venture	AC Square, Inc.	10/30/2013	Email	HMM - T. Grau	Received email from Craig Cordova (Designer). We are the construction contractors for Comcast and received the paper maps for the HSR project areas to identify Comcast facilities. Is it possible to get the CAD files or just the layer with the Sheet Limit and Numbers? Awaiting on direction from PMT on how to respond to the below request
252	URS/HMM/Arup Joint Venture	J.G. Boswell Company	10/30/2013	Email	HMM - T. Grau	Received email from Dennis C. Tristao (Environmental Services Manager): High Speed Rail authority has not completed our HSR Cooperative Agreement contract 13-51 with J.G. Boswell Company. Until that contract is completed and executed we are hesitant to complete the extensive detailed work outlined in your request. In any event, attached to the letter was one figure page and nineteen attached exhibit pages. For our analysis to be completed we require the figures and exhibits to be provided in pdf files, to scale, in addition to the hard copy prints. We overlay these scaled prints to our maps to determine location of utility services. Your letter requested completion of this project within thirty days of receipt. We respectfully request at least 90 days after execution of the HSR Cooperative Agreement contract to analyze these maps. We may in all likelihood require the assistance of a contractor to complete the requested analysis and the selection process for a contractor may take 30 days itself.
253	URS/HMM/Arup Joint Venture	North of River Sanitary District	10/30/2013	Phone	HMM - T. Grau	LaRue Griffin [661.399.6411] left a message (2013-10-30 11:53am): WS1 alignment Sewer
254	URS/HMM/Arup Joint Venture	North of River Sanitary District	10/30/2013	Phone	HMM - T. Grau	Spoke to LaRue Griffin (3:15pm): Plans of interceptor sewer along Santa Fe Way between 7th Standard Road and Kratzmeyer Road (WS1 Exhibits 33-37). Also have plans or future expansion. LaRue indicated that he will email as-built drawings to save marking up maps and having to mail them.
255	URS/HMM/Arup Joint Venture	County of Fresno	10/31/2013	Phone	HMM - T. Grau	John Robinson [559.600.4527] left a message (2013-10-31 08:46am): Received 'A' Letter Package

FB - Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
256	URS/HMM/Arup Joint Venture	County of Fresno	10/31/2013	Phone	HMM - T. Grau	Spoke to John Robinson (10:15am): County does not have utilities of any magnitude. May have some small community service districts -- will advise on them. JV Team clarified this request was solely directed at utilities and not roadway ROWs. John will get back to the JV Team and advise on other possible agencies.
257	URS/HMM/Arup Joint Venture	J.G. Boswell Company	10/31/2013	Phone	HMM - T. Grau	Spoke to Dennis C. Tristao (9:00am) in regards to Exhibit 2 (Nevada Avenue). SW corner pasture ground - signed long term lease for a solar facility in this area. First phase to the east has been constructed.
258	URS/HMM/Arup Joint Venture	Kings River Conservation District	11/01/2013	Phone	HMM - T. Grau	Left voicemail for Steve Stadler.
259	URS/HMM/Arup Joint Venture	Kings River Conservation District	11/04/2013	Phone	HMM - T. Grau	Spoke to Steve Stadler. Stadler said it is possible that the cover letter got separated on his end. Now that the 3rd party agreement has been signed, the district will be more active. Stadler mentioned that he wanted to wait until after the meeting that is taking place on Nov. 14th to respond to the 'A' Letter.
260	URS/HMM/Arup Joint Venture	Southern California Gas Company	11/04/2013	Email	HMM - T. Grau	Received email from Chad Mueller (Planning Associate) in regards to the 'A' Letter request. I have composed a file containing the missing utility maps and will be sending you a CD shortly.
261	URS/HMM/Arup Joint Venture	Kings River Conservation District	11/04/2013	Phone / Email	HMM - T. Grau	Sent email to Steve Stadler confirming telephone conversation
262	URS/HMM/Arup Joint Venture	Southern California Gas Company	11/04/2013	Email	HMM - T. Grau	Received email from Chad Mueller (Planning Associate) in regards previous email discussing a possible FTP site to assist in delivering maps.
263	URS/HMM/Arup Joint Venture	Verizon	11/05/2013	Email	URS - K. Gordon	Received email from Larry Vail (Verizon Supervisor - Network Engineering and Operations for Camarillo, Reedley, Santa Barbara, Santa Maria) indicating "all or most of requested information has previously been forwarded to Ron Price (PMT). Verizon cannot spend additional time on HSR project without executed 3rd Party Agreement.
264	URS/HMM/Arup Joint Venture	North of River Sanitary District	11/05/2013	Email	HMM - T. Grau	Received email from LaRue Griffin: Per previous discussion, as-built drawings were emailed regarding plans of interceptor sewer along Santa Fe Way between 7th Standard Road and Kratzmeyer Road (WS1 Exhibits 33-37).
265	URS/HMM/Arup Joint Venture	Southern California Gas Company	11/06/2013	Phone	HMM - T. Ramil	Left Voicemail for Chad Mueller: Requested for CAD or GIS of the pdf maps supplied.
266	URS/HMM/Arup Joint Venture	J.G. Boswell Company	11/07/2013	Email	HMM - T. Ramil	Sent email to Dennis Tristao: Sent requested scaled pdf file of the C2 'A' Letter Map Exhibits.
267	URS/HMM/Arup Joint Venture	City of Visalia	11/08/2013	Email	HMM - T. Grau	Received email from Jason Huckleberry (Engineering Development Manager): The City of Visalia does not have any existing utilities within the revised high speed rail alignment. The current rail alignment is some 9.5 miles west of the Visalia city limits.
268	URS/HMM/Arup Joint Venture	Lakeside Irrigation Water District	11/08/2013	Email	URS - K. Gordon	Received email from R.L. Schafer (R.L. Schafer & Associates): the service area lands of the Lakeside Ditch Company are not in favor of the High-Speed Rail, the Lakeside Irrigation Water District (LIWD) does not have a Reimbursement Agreement for costs incurred as requested by your letter, and the staff of LIWD are not authorized to respond to your letter.
269	URS/HMM/Arup Joint Venture	AC Square, Inc.	11/08/2013	Email	HMM - T. Ramil	Sent email to Craig Cordova: Sent requested CAD file containing the sheet limits of the 'A' Letter Map Exhibits.
270	URS/HMM/Arup Joint Venture	Verizon	11/08/2013	Phone	HMM - T. Grau	Spoke to Larry Vail: Earlier Verizon provided data for their system along HST (March this year) Corcoran, Fowler, and McFarland exchanges. Mr. Vail sent 'A' Letter to his Reedley Office. Paula Rivera left message for Mr. Vail re: 3rd party agreement. Incurred quite an expense, cannot go further without a 3rd party agreement.
271	URS/HMM/Arup Joint Venture	Pacific Gas and Electric	11/11/2013	Email	HMM - T. Grau	Sent email to Dale Overbay: Sent requested GIS Shape Files containing the proposed alignment ROWs and roadway work envelope associated with 'A' Letter Map Exhibits.

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FB - Utility Owner Contact Log

No.	Region	Owner	Date	Correspondence Type	Correspondence By	Description
272	URS/HMM/Arup Joint Venture	Corcoran Irrigation District	11/12/2013	Email	URS - K. Gordon	Received email from Gene Kilgore (Assistant Manager): Unfortunately CID, as of yet, has not received a reimbursement agreement from the HSRA. I would be glad to provide you all the information CID has regarding your request, however, I understand CID cannot be reimbursed for time spent on compiling the information you requested without this agreement.
273	URS/HMM/Arup Joint Venture	Southern California Gas Company	11/12/2013	Phone	HMM - T. Ramil	Spoke to Chad Mueller: Would like to send CAD/GIS files, but needs to get authorization from the Tower (headquarters). He won't be able to look into it until next week. Believe no agreement is in place. Once in place, a meeting can be held to discuss work.
274	URS/HMM/Arup Joint Venture	City of Fresno	11/13/2013	Mail	HMM - T. Grau	Received a letter from Scott Mozier (City Engineer/Assistant Public Works Director): The subject location is outside of the City of Fresno and no city owned utilities are present.
275	URS/HMM/Arup Joint Venture	Kaweah-Delta Water Conservation District	11/13/2013	Mail	HMM - T. Grau	Received a letter from Larry Dotson (Senior Engineer): There is no conflict with any District property, easements, or facilities for the presented alignments.
276	URS/HMM/Arup Joint Venture	Fresno Irrigation District	11/14/2013	Phone	HMM - T. Grau	Left Voicemail for William Stretch: Requested status on 'A' Letter response and an opportunity to come over and meet relative to 'A' Letter Exhibits.
277	URS/HMM/Arup Joint Venture	Southern California Edison	11/14/2013	Phone	HMM - T. Grau	Left Voicemail for David Lofton: Requested status on 'A' Letter response and an opportunity to come over and meet relative to 'A' Letter Exhibits.
278	URS/HMM/Arup Joint Venture	Fresno Irrigation District	11/15/2013	Phone	HMM - T. Grau	Spoke to Felix Aguilar: Should have a letter response mid next week. will look into setting up a meeting to discuss the relocation on Nov 26th.
279	URS/HMM/Arup Joint Venture	Science International Engineers	11/15/2013	Phone	HMM - C. Ramirez	Left voice mail for Thomas Burns @ SAIC (916) 979-3478 following up on status of 'A' letter response.
280	URS/HMM/Arup Joint Venture	AT&T	11/15/2013	Phone	HMM - C. Ramirez	Tried to leave VM for Sabrina Lower-Hunt at AT&T (775) 851-6096. Number disconnected
281	URS/HMM/Arup Joint Venture	AT&T	11/15/2013	Email	HMM - C. Ramirez	Sent 'A' letter follow-up e-mail to Sabrina Lower-Hunt at AT&T.
282	URS/HMM/Arup Joint Venture	Southern California Edison	11/18/2013	Email	HMM - T. Grau	Sent email to David Lofton: Requested existing utility locations along the CP 2/3 alignment as well as the contact person SCE has assigned to this section.
283	URS/HMM/Arup Joint Venture	Southern California Edison	11/18/2013	Email	HMM - T. Grau	Received email from David Lofton: I will not be the contact for this project, if I get any information I will let you know.
284	URS/HMM/Arup Joint Venture	PG&E	11/19/2013	Phone	HMM - T. Grau	Mr. Overbay provided some background information on the Kingsburg-Waukena and Kingsburg-Corcoran 115 kV lines which require relocation for approximately 4.5 miles between approximate Stations 1745+00 and 1981+00 on the H alignment and general criteria and approach PG&E would be looking for relative to relocation. Will summarize in Mtg. Notes.
285	URS/HMM/Arup Joint Venture	Fresno Irrigation District	11/19/2013	Phone	HMM - T. Grau	Spoke with Felix Vaquilar following receipt of meeting invite for Tuesday Nov. 26, 2013 to confirm that HMM will provide call-in details and will send invite to PMT and PMT 3rd Party Agreements (Tony Valdez).

Appendix D

Utility Log Index

FB - Utility Log Index

Heading	Explanation
No.	Sequentially number each entry
Region	Regional Consultant
Owner	Utility Owner
Contact	Name of the contact person representing the Owner
Title	Job title of the contact person representing the Owner
Address	Street Address, City, and Zip Code of the Owner's contact location
Phone	Phone number for Owner's representative
Email	Email address for Owner's representative
HST Alignment	High-Speed Train Alignment Subsection Alternative
Station	Stationing along the alignment to locate the facility
Facility Type	Type of utility being conveyed
Size	Size of utility facility
Units	Units of measure for the size of utility
Length	Length of utility being impacted - Use separate entries for abandonment and relocated utilities
% Cost Allocation	Percentage of construction cost to be borne by CHSRA (requires input by CHSRA)
Disposition	State the type of work being performed (Abandoned, relocated)
Date	Date of contact with Owner
Correspondence Type	Type of correspondence with Owner (phone, fax, letter, email)
Description	Description of the discussion and/or request. Include reference to email or letter dates

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Appendix E

Special Utility Considerations

**F-B Special Utility Considerations
Depressed HST Alignment**

HST Alignment	HST Station Range	Impacted Utility	Utility Owner	Utility Specs	Existing Conditions Description
F1	371+00	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	371+82	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	371+83	Storm Drain Pipe	FMFCD	30" Diameter	Pipe runs east-west across HST
	380+20	Water Pipe	City of Fresno	10" Diameter	Pipe runs east-west across HST
	380+20	Water Pipe	City of Fresno	12" Diameter	Pipe runs north-south across HST
	380+40	Storm Drain Pipe	FMFCD	84" Diameter	Pipe runs east-west across HST
	380+60	Sewer Pipe	City of Fresno	10" Diameter	Pipe runs east-west across HST
	381+10	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	381+80	Sewer Pipe	City of Fresno	30" Diameter	Pipe runs east-west across HST
	381+20 to 387+60	Water Pipe	City of Fresno	12" Diameter	Pipe runs parallel HST alignment
	383+80 to 387+30	Storm Drain Pipe	FMFCD	42" Diameter	Pipe runs parallel HST alignment
	387+30 to 400+10	Storm Drain Pipe	FMFCD	36" Diameter	Pipe runs parallel HST alignment
	386+40	Electric Line - Overhead	PG&E	115 kV	Overhead wire runs east-west across HST
	387+10	Electric Line - Overhead	PG&E	69 kV	Overhead wire runs east-west across HST
	387+30	Storm Drain Pipe	FMFCD	24" Diameter	Pipe runs east-west and north-south across HST
	387+45	Water Pipe	City of Fresno	12" Diameter	Pipe runs north-south across HST
	387+90	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	400+10	Storm Drain Pipe	FMFCD	18" Diameter	Pipe runs east-west across HST
	415+70	Sewer Pipe	City of Fresno	48" Diameter	Pipe runs east-west across HST
	416+20	Storm Drain Pipe	Unknown	24" Diameter	Pipe runs east-west across HST
	418+50	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	422+45	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	425+05	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	429+50	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
HW2	1824+38	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs east-west across HST
	1825+26	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	1829+32 to 1842+78	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs north-south longitudinal across HST
	1829+32 to 1842+78	Electric Line - Overhead	PG&E	-	Overhead wire runs north-south longitudinal across HST
	1834+63	Water Pipe	City of Hanford	12" Diameter	Overhead wire runs north-south longitudinal across HST
	1836+69	Natural Gas	Southern California Gas Company	12" Diameter	Overhead wire runs east-west across HST
	1848+82	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST
	1870+49	Water Pipe	City of Hanford	12" Diameter	Overhead wire runs east-west across HST
	1870+49	Telecommunication wire - Underground	Comcast	-	Overhead wire runs east-west across HST
	1879+34	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs east-west across HST
	1879+60	Water Pipe	City of Hanford	12" Diameter	Overhead wire runs east-west across HST
	1879+87	Electric Line - Overhead	PG&E	-	Overhead wire runs east-west across HST

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**F-B Special Utility Considerations
Roadway Underpass**

HST Alignment	Road Name	Road Alignment	Station Range	Impacted Utility	Utility Owner	Utility Specs	Existing Conditions Description
F1	Fresno St	FFS	9+00 TO 12+50	Storm Drain Pipe	FMFCD	18" Diameter	Pipe runs southwest-northeast along Fresno St
		FFS	9+00 TO 11+00	Sewer Pipe	City of Fresno	10" Diameter	Pipe runs southwest-northeast along Fresno St
		FFS	10+80	Water Pipe	City of Fresno	8" Diameter	Pipe runs southeast-northwest across Fresno St
		FFS	10+90	Sewer Pipe	City of Fresno	8" Diameter	Pipe runs southeast-northwest across Fresno St
		FFS	12+20 TO 12+70	Storm Drain Pipe	FMFCD	15" Diameter	Pipe runs southeast-northwest along Fresno St
		FFS	9+00 TO 12+70	Water Pipe	City of Fresno	12" Diameter	Pipe runs southwest-northeast along Fresno St
		FFS	12+80	Water Pipe	City of Fresno	12" Diameter	Pipe runs southeast-northwest across Fresno St
		FFS	12+80 TO 17+00	Water Pipe	City of Fresno	12" Diameter	Pipe runs southwest-northeast along Fresno St
		FFS	13+60	Oil (Abandoned)	Chevron	Unknown	Pipe runs southeast-northwest across Fresno St
		FFS	15+20	Electric Line - Overhead	Unknown	-	Overhead wire runs southeast-northwest across Fresno St
		FFS	15+20	Electric Line - Overhead	Unknown	-	Overhead wire runs southwest-northeast along Fresno St
		FFS	16+60	Oil	Kinder Morgan Inc	12" Diameter	Pipe runs southeast-northwest across Fresno St
		FFS	16+70	Fiber Optic	Level 3 Communication	-	Pipe runs southeast-northwest across Fresno St
	Tulare St	FTU	9+15	Water Pipe	City of Fresno	8" Diameter	Pipe runs north-south parallel F Street
		FTU	9+15 TO 11+05	Water Pipe	City of Fresno	6" Diameter	Pipe runs parallel Tulare Street
		FTU	11+05	Water Pipe	City of Fresno	6" Diameter	Pipe runs north-south parallel China Alley
		FTU	13+26	Water Pipe	City of Fresno	10" Diameter	Pipe runs north-south parallel G Street
		FTU	19+60	Water Pipe	City of Fresno	12" Diameter	Pipe runs north-south parallel H Street
		FTU	19+05	Storm Drain Pipe	FMFCD	15" Diameter	Pipe runs north-south parallel F Street
		FTU	9+00 To 13+07	Storm Drain Pipe	FMFCD	72" Diameter	Pipe runs parallel Tulare Street
		FTU	19+85	Storm Drain Pipe	FMFCD	42" Diameter	Pipe runs north-south parallel H Street
		FTU	9+18	Sewer Pipe	City of Fresno	4" Diameter	Pipe runs north-south parallel F Street
		FTU	9+00 TO 11+00	Sewer Pipe	City of Fresno	10" Diameter	Pipe runs parallel Tulare Street
		FTU	11+00	Sewer Pipe	City of Fresno	8" Diameter	Pipe runs north-south parallel China Alley
		FTU	13+21	Sewer Pipe	City of Fresno	8" and 10" Diameter	Pipe runs north-south parallel H Street. North of intersection 8" pipe and 10" pipe south of intersection
		FTU	19+71	Sewer Pipe	City of Fresno	18" and 8" Diameter	Pipe runs north-south parallel G Street. North of intersection 18" pipe and 8" pipe south of intersection
		FTU	11+00	Electric Line - Overhead	PG&E	-	Overhead wire runs north-south parallel China Alley
		FTU	13+30	Electric Line - Overhead	PG&E	-	Overhead wire runs north-south parallel G Street
		FTU	13+30 TO 19+20	Electric Line - Overhead	PG&E	-	Overhead wire runs parallel Tulare Street
		FTU	15+30	Telecommunication wire	Unknown	-	Overhead wire runs north-south parallel HST
		FTU	16+00	Petroleum	Unknown	Unkown	Pipe runs north-south parallel HST
		FTU	16+00	Fiber Optic	Level 3 Communication	-	Wire runs north-south parallel HST

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**F-B Special Utility Considerations
Roadway Underpass**

HST Alignment	Road Name	Road Alignment	Station Range	Impacted Utility	Utility Owner	Utility Specs	Existing Conditions Description
HW	E Conejo Ave	WFCO	20+77	Electric Line - Overhead	PG&E	12kV	Overhead wire runs north-south parallel HST
		WFCO	23+34	Fiber Optic	Level 3 Communication	-	Wire runs north-south parallel HST
		WFCO	11+50 to 30+00	Natural Gas	Unknown	-	Gas line runs west-east along north side of Conejo Ave
		WFCO	11+50 to 30+00	Natural Gas	Unknown	-	Gas line runs west-east along south side of Conejo Ave
		WFCO	15+00 to 30+00	Electric Line - Overhead	PG&E	12kV	Overhead wire runs west-east along north side of Conejo Ave
		WFCO	11+50 to 33+00	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs west-east along south side of Conejo Ave
	Grangeville Blvd	WKGR	29+00 to 55+00	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along south side of Grangeville Blvd
		WKGR	22+17 to 50+17	Telecommunication wire - Overhead	Unknown	-	Overhead wire runs west-east along south side of Grangeville Blvd
		WKGR	52+88	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs north-south along west side of 13th Ave
		WKGR	53+17	Water Line	City of Hanford	12" Diameter	Water line runs north-south along east side of 13th Ave
		WKGR	53+28	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along east side of 13th Ave
		WKGR	53+28	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs north-south along east side of 13th Ave
	W Lacey Blvd	WKLC	12+25 to 39+06	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs west-east along north side of Lacey Blvd
		WKLC	12+25 to 39+06	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs west-east along south side of Lacey Blvd
		WKLC	12+25 to 39+06	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along south side of Lacey Blvd
		WKLC	26+36 to 26+83	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along 13th Ave
		WKLC	26+48	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs north-south along 13th Ave
		WKLC	26+58	Water Line	City of Hanford	12" Diameter	Water line runs north-south along 13th Ave
		WKLC	26+58 to 39+06	Water Line	City of Hanford	12" Diameter	Water line runs west-east along Lacey Blvd
	13th Ave	WK13	21+50 to 55+00	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along 13th Ave
		WK13	21+50 to 55+00	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs north-south along 13th Ave
		WK13	21+50 to 55+00	Water Line	City of Hanford	12" Diameter	Water line runs north-south along 13th Ave
		WK13	35+78	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs west-east along north side of Lacey Blvd
		WK13	36+35	Water Line	City of Hanford	12" Diameter	Water line runs west-east along Lacey Blvd
		WK13	36+42	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs west-east along south side of Lacey Blvd
		WK13	36+63	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along south side of Lacey Blvd
HW2	E Conejo Ave	WFCO	20+77	Electric Line - Overhead	PG&E	12kV	Overhead wire runs north-south parallel HST
		WFCO	23+34	Fiber Optic	Level 3 Communication	-	Wire runs north-south parallel HST south of Conejo Ave
		WFCO	15+81 to 29+36	Electric Line - Overhead	PG&E	12kV	Overhead wire runs west-east along north side of Conejo Ave
		WFCO	10+00 to 33+51	Telecommunication wire - Overhead	Comcast	-	Overhead wire runs west-east along south side of Conejo Ave
	Grangeville Blvd	WKGR	22+17 to 50+17	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along south side of Grangeville Blvd
		WKGR	22+17 to 50+17	Telecommunication wire - Overhead	Unknown	-	Overhead wire runs west-east along south side of Grangeville Blvd

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**F-B Special Utility Considerations
Roadway Underpass**

HST Alignment	Road Name	Road Alignment	Station Range	Impacted Utility	Utility Owner	Utility Specs	Existing Conditions Description
K1	Idaho Ave	WKID	21+00 TO 53+00	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along north side of Idaho Ave
		WKID	39+01	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along east side of 12th Ave
	12th Ave	WK12	12+50 TO 52+31	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along east side of 12th Ave
		WK12	28+81	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along north side of Idaho Ave
	11th Ave	WK11	11+50 to 49+25	Telecommunication wire - Overhead	Comcast	-	Wire runs north-south along 11th Ave
		WK11	11+50 to 49+25	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along 11th Ave
K2	Idaho Ave	WKID	21+00 TO 53+00	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along north side of Idaho Ave
		WKID	39+01	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along east side of 12th Ave
	12th Ave	WK12	12+50 TO 49+50	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along east side of 12th Ave
		WK12	28+81	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along north side of Idaho Ave
	11th Ave	WK11	12+50 TO 41+00	Telecommunication wire - Overhead	Unknown	-	Wire runs north-south along 11th Ave
		WK11	12+50 TO 41+00	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south along 11th Ave
	Kent Ave	WKKE	24+50 TO 43+00	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along Kent Ave
	Kansas Ave	WKKA	15+00 TO 44+00	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along Kansas Ave
C2	State Route 137	SR137	11+20 TO 34+00	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along SR137
WS1	Kimberlina Ave	KBA	11+20	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south across Kimberlina Rd
		KBA	11+20 TO 31+00	Electric Line - Overhead	Unknown	-	Overhead wire runs west-east along Kimberlina Rd
		KBA	13+00	Irrigation Line	Shafter-Wasco Irrigation District	Unknown	Pipe runs north-south across Kimberlina Rd
		KBA	16+30	Telecommunication wire	Unknown	-	Wire runs north-south along Kimberlina Rd
		KBA	16+60	Telecommunication wire - Overhead	Unknown	-	Wire runs southeast-northwest across Kimberlina Rd
		KBA	22+30	Electric Line - Overhead	Unknown	-	Wire runs north-south across Kimberlina Rd
		KBA	27+90	Electric Line - Overhead	Unknown	-	Overhead wire runs north-south across Kimberlina Rd

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